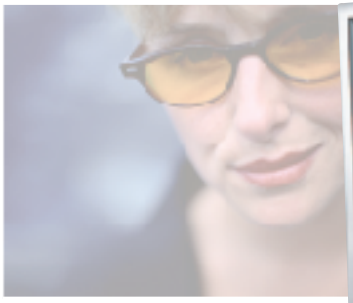
Your Gateway Plasma TV
GTW-P42M102

user's guide



Setting up | Troubleshooting | Gateway™

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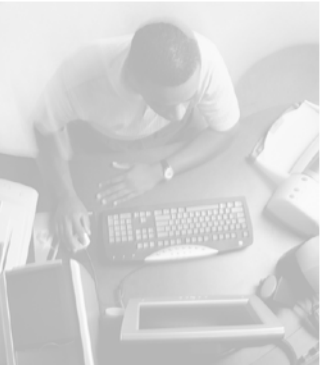
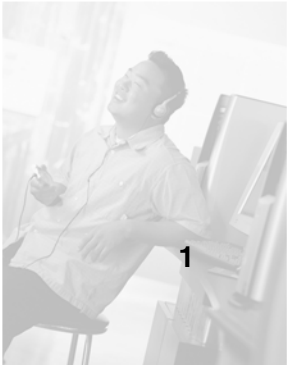
1 Introducing Your Gateway Plasma TV

This chapter provides basic information about your Gateway GTW-P42M102 Plasma TV.

Read this chapter to learn about:

- Features
- Warnings and safeguards
- Package contents
- Controls and connections





Features

Thank you for purchasing your Gateway GTW-P42M102 Plasma TV.

Some of the features that you will enjoy are:

- **Advanced digital image processing:** View a brighter, flicker-free image using the advanced digital processor with adaptive motion de-interlacing that converts all 15 KHz signals into progressive scan.
- **3:2 pull-down for film scan conversion**: Automatically detect and convert film content for correct display with minimal motion artifacts (noise) with the built-in 3:2 pull-down processing.
- **3D comb filter**: Get more accurate color processing with the built-in 3D comb filter.
- **Dual HD component video input sources**: Use two high-definition component video input sources with auto-detection capabilities that automatically synchronize the display to match the incoming source.
- **Picture-in-picture (PIP)**: Watch two programs simultaneously using picture-in-picture with four selectable window position settings.
- **Picture-on-picture (POP)**: Watch two programs at the same time.
- **HDTV signal compatible**: Process 1080i and 720p HDTV signals using an external HDTV decoder with RGB or Component Video outputs.
- **Digital zoom modes**: Get rid of “black bars” using digital zoom.

- **BBE® sound maximizer**: Use a built-in BBE sound processor to maximize the sound quality.
- **SRS® sound processing:** Use a built-in SRS sound processor to simulate surround effects using only two speakers.
- **Selectable fixed/variable audio outputs**: Use software selectable fixed or variable audio outputs.
- **Built-in internal amplifier and speakers:** Use internal 10-watt (5 watts × 2) audio and built-in speakers.
- **Bass extension circuitry/subwoofer out**: Enhance bass performance by adding a separate, powered subwoofer.
- **Digital Visual Interface**: Use a built-in Digital Visual Interface (DVI) to eliminate the need for digital-to-analog conversion.
- **1280 × 1024 SXGA support**: Use an onboard digital scaling engine that accepts various computer and HDTV signals. The engine digitally maps the signals to fit within 852 × 480 pixels. Compatible signals include computer display resolutions up to 1280 × 1024 and HDTV signals, including 720p and 1080i.

Important Safeguards

Warning

Risk of electric shock - Do not open

To reduce the risk of electric shock, do no remove the back cover. There are no user-serviceable parts inside. Removing the back cover voids the warranty.

Have your plasma TV repaired by qualified service personnel only.

Warnings and precautions

- Do not place your hands, face, or objects close to the ventilation openings of your plasma TV. The top of your plasma TV gets very hot from exhaust air that is released through the ventilation holes. Burns or personal injuries may occur if any body parts are placed too close. Placing any object near the top of your plasma TV could result in heat related damages to the object and your plasma TV.
- Disconnect all cables before moving your plasma TV. Moving your plasma TV with its cables attached may damage the cables and cause fire or electric shock danger.
- To prevent damage which may result in a fire or shock hazard, do not expose your plasma TV to rain or moisture.
- Keep your plasma TV away from excessive dust, high temperatures, moisture, or direct sunlight.
- Use in a well-ventilated area and do not cover your plasma TV ventilation openings.
- Unauthorized modification of this equipment or use of an unshielded power cord or video input source cable may cause excessive interference.
- When your plasma TV is not in use for a long period of time, disconnect it from the electrical outlet.
- If the picture displayed is in any way abnormal, turn off your plasma TV, then disconnect it from the electrical outlet. Make sure that your video input source cable is connected correctly, then reconnect your plasma TV to the electrical outlet.
- Disconnect your plasma TV from the electrical outlet before cleaning or performing maintenance. Do not use liquid or aerosol cleaners. Use only a slightly damp cloth for cleaning.

- Do not place your plasma TV on an unstable cart, stand, or table. Your plasma TV may fall, causing serious damage.
- Do not place your plasma TV on a bed, sofa, rug, or other similar surfaces. Never place your plasma TV near or over a radiator or heat source. Do not install your plasma TV in an enclosed area unless correct ventilation is provided.
- Your plasma TV should be operated from the type of power source indicated on the label. If the type of available power is unknown, consult your electrician or local power company.
- Your plasma TV is equipped with a 3-pin grounded plug. The plug will only fit into a grounded power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician. Do not alter the plug because this will defeat the safety feature.
- Do not rest objects on the power cord and avoid placing the power cord near high traffic areas.
- Do not overload wall outlets and extension cords because this can result in a risk of fire or electric shock.
- Disconnect your plasma TV from the main power supply and refer servicing to qualified service personnel if:
  - The power cord or plug is damaged or frayed.
  - Liquid has been spilled into your plasma TV.
  - Your plasma TV has been exposed to water or moisture.
  - Your plasma TV does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions. Incorrect adjustment of other controls may result in damage which often requires extensive work by a qualified technician to restore your plasma TV to normal operation.
  - Your plasma TV has been dropped or the cabinet has been damaged.

Avoid image burn-in

- Displaying the same stationary patterns over extended periods of time, such as black bars, stock tickers, video games, or shopping channel logos and pricing displays, can leave a permanent ghost image (burn-in). Avoid this by mixing your viewing patterns. Do not show the same stationary image for more than 15% of your total TV viewing in any one week.
- Your warranty does **NOT** cover screen burn-in.

Package contents

Along with your plasma TV, the packaging box contains the following items:

Remote control

Two AA batteries

Power cord

User guide	
Quick Reference card	

You can purchase these optional accessories for your plasma TV:

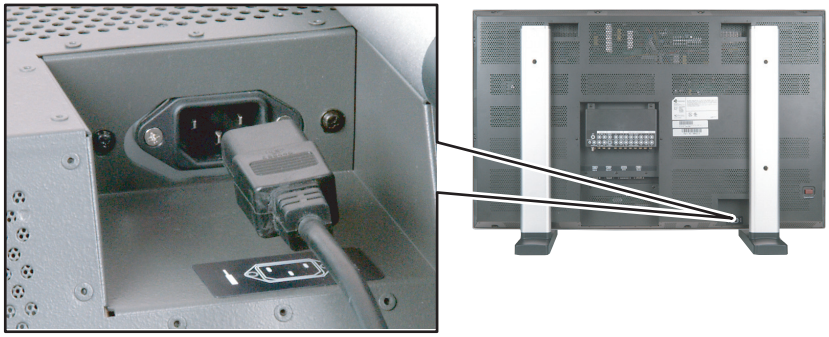
- **Wall mount kit.** The wall mount kit contains all of the required hardware for mounting your plasma TV on your wall. (Gateway recommends you use a qualified installer.) For more information, see the Wall Mount Installation Guide at support.gateway.com.
- **Cable kits**. Gateway cable kits consist of high-quality gold cables of various lengths, including:
  - RCA composite video cable
  - S-Video cable
  - RCA component video cable
  - RCA audio cable
  - VGA video cable
  - DVI-D video cable

Contact Gateway for these and other accessories.

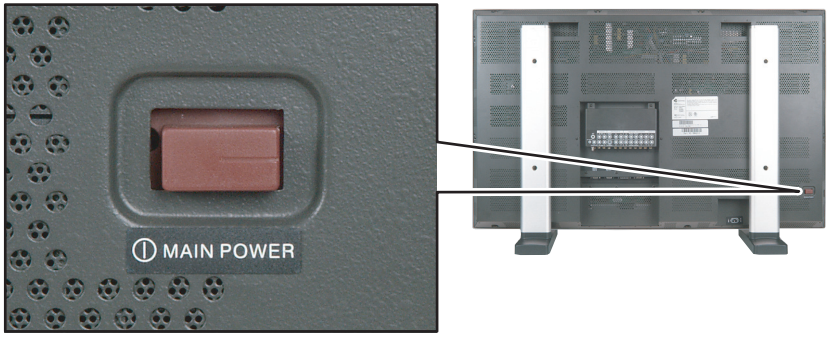
Turning on the main power

To turn on the main power:

1 Connect the power cord to the power cord connector on the back of your plasma TV, then plug the other end of the power cord into a correctly grounded electrical outlet or surge protector.



2 Press the MAIN POWER button. The Status LED on the front panel turns yellow and your plasma TV is ready to turn on.

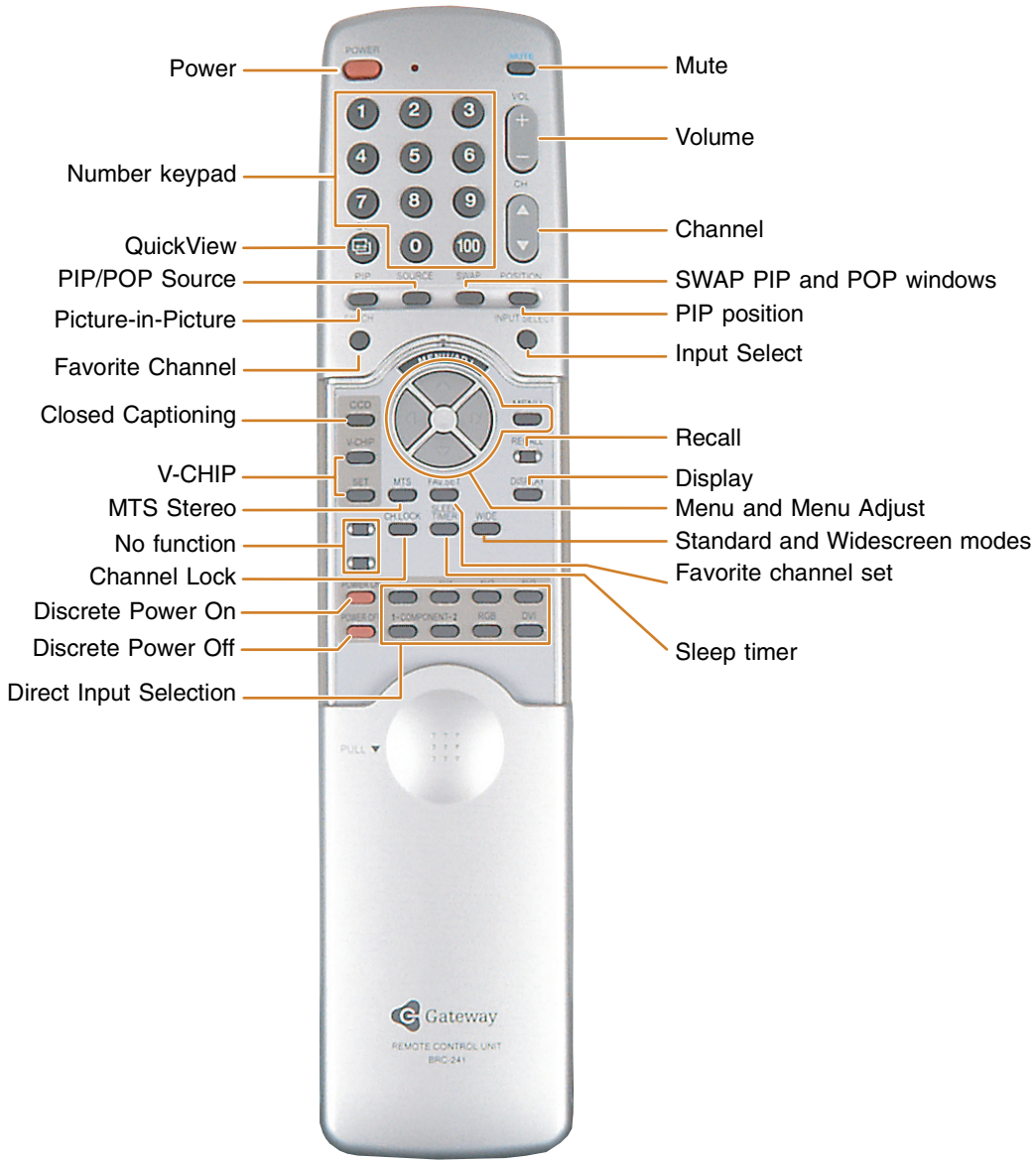


Using the remote control

To install batteries:

- Insert two AA batteries into the remote control, making sure to match the + and – on the batteries with the + and – symbols inside the battery compartment.

Remote control buttons

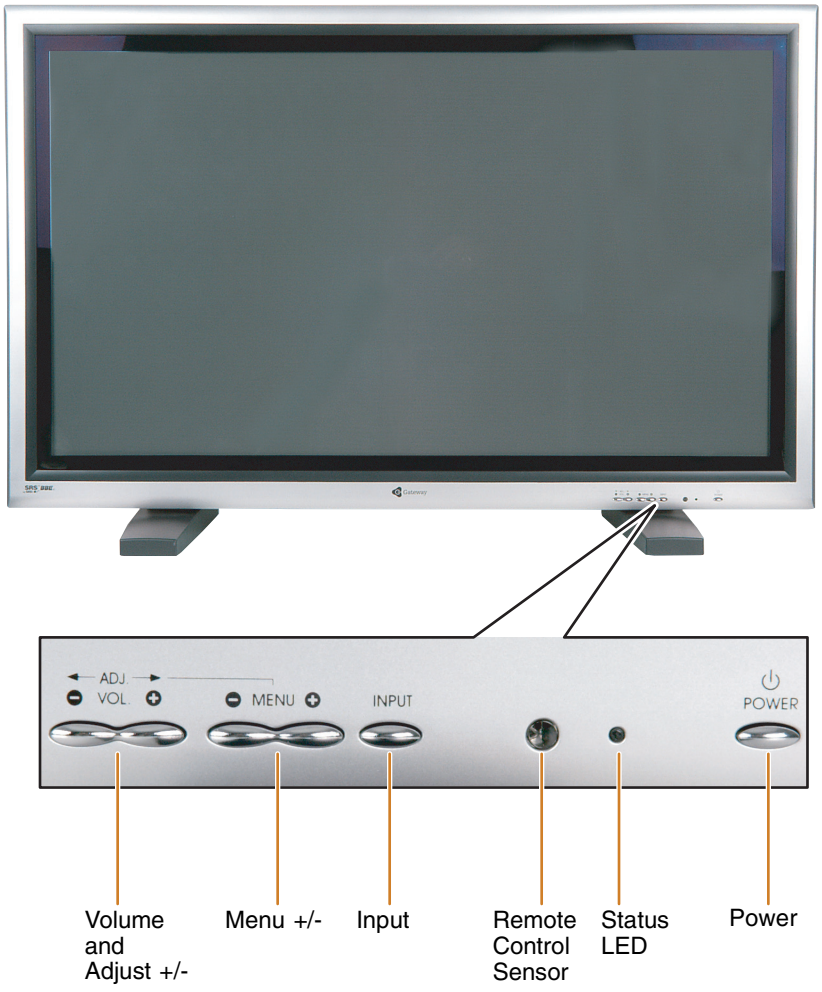


Button	Description
Power	Turns your plasma TV on and off. Changes the current power status of your plasma TV—if your plasma TV is on, the buton turns the TV off and if your plasma TV is off it turns it on.
Number keypad	Selects a channel.
QuickView	**QV.** Recalls the last watched channel. (See page 47)
PIP/POP Source	**SOURCE.** Changes the video input source for the PIP or POP sub-picture. (See page 40 and page 42)
Picture-in-Picture	**PIP.** Turns PIP (picture-in-picture) mode and POP (picture-on-picture) mode on and off. (See page 40 and page 42)
Favorite Channel	**FAV. CH.** Recalls channels programmed using favorite channel memory. (See page 45)
Closed Captioning	**CCD.** Turns Closed Caption mode on and off.
V-Chip	Accesses the V-Chip settings in the on-screen display (OSD). (See page 53)
MTS Stereo	**MTS.** Turns MTS stereo on and off. (See page 50)

Button	Description
No function	(Reserved)
Channel Lock	**CH. LOCK.** Opens the Channel Lock password screen to lock the currently selected channel. (See page 46)
Discrete Power On	**POWER ON.** Turns your plasma TV on. Use the discrete power on button to program an *on* signal into "universal" remote controls.
Discrete Power Off	**POWER OFF.** Turns your plasma TV off. Use the discrete power off button to program an *off* signal into "universal" remote controls.
Direct Input Selection	Changes the input source directly.
Mute	Turns the sound on and off
Volume	**VOL.** Increases or decreases the volume.
Channel	**CH.** Changes the channels sequentially by pressing **+** or **–**.
Swap PIP and POP windows	Swaps the main picture and the sub-picture under PIP and POP modes. (See page 40 and page 42)

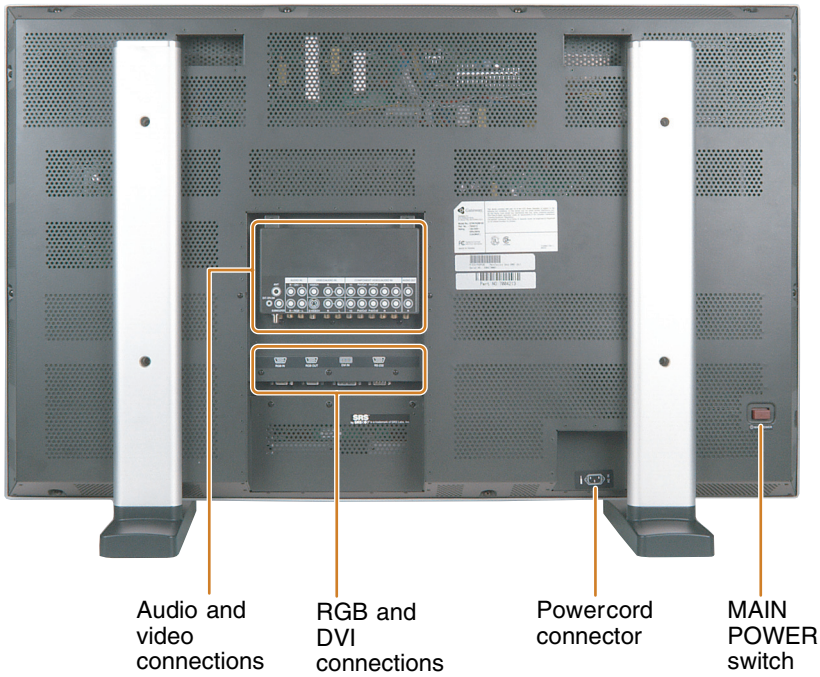
Button	Description
PIP position	**POSITION.** Moves the PIP window. (See page 40 and page 42)
Input Select	Cycles through available input sources.
Recall	Recalls default picture settings. (See page 57)
Display	Shows the status of your plasma TV, such as the input source, PIP/POP information, audio status, and channel number.
Menu and Menu Adjust	**MENU AND MENU/ADJ** 1 Shows the OSD menu by pressing ↑ or ↓ or the MENU key. 2 Scrolls through the OSD screens using ← or →. 3 Selects options within a category by pressing ↑ or ↓. 4 Changes options by pressing ← or →.
Standard and Widescreen modes	**WIDE.** Cycles through standard and widescreen viewing modes. (See page 38)
Favorite channel set	**FAV. SET**. Adds and deletes channels from your favorite list. (See page 45)
Sleep timer	Turns on sleep timer settings. (See page 48)

Front panel buttons



Button	Description
Volume and Adjustment +/–	**VOL/ADJ.** Increases or decreases the volume. Also adjusts on-screen display (OSD) options.
Menu +/–	**MENU.** Opens the OSD.
Input	Switches between available input sources.
Remote control sensor	Remote control signal sensor. Do not block.
Status LED	▪ Not lit - No AC power detected. The main power button is off or the power cord is not connected. ▪ Solid Yellow - The main power is on and your plasma TV is off. ▪ Solid Green - Your plasma TV is on.
Power	Turns your plasma TV on and off. When you turn your plasma TV on or off, wait three seconds before pressing again.

Rear cable connections



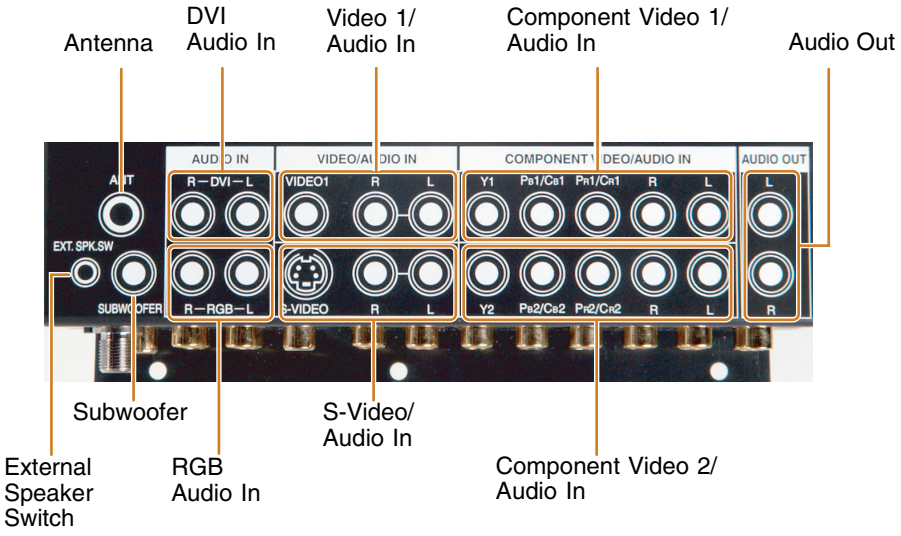
Connector	Description
Audio and video connections	See “Audio and video connections” on page 17.
RGB and DVI connections	See “RGB and DVI connections” on page 18.
Power cord connector	Connect the power cord here.
Main Power switch	Turns the main power on or off.

Warning

If you will be away for an extended period of time, turn off your plasma TV with the MAIN POWER switch instead of using the remote control or front panel POWER buttons.

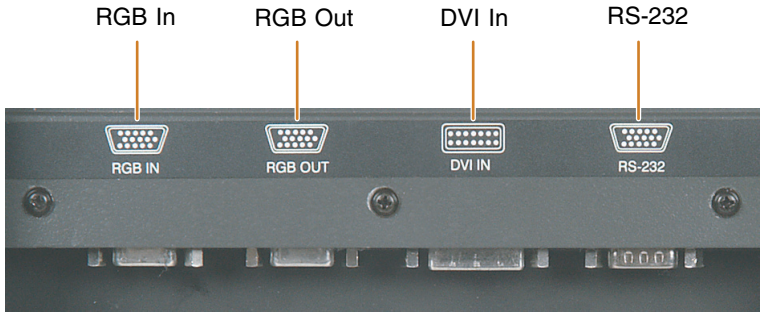
For added protection of any Gateway product during a lightning storm or when it is left unattended or unused for long periods of time, unplug the product from the wall outlet and disconnect the antenna or cable system.

Audio and video connections



Connector	Description
Antenna	Connects to your VHF/UHF antenna.
DVI Audio In	Connects to the audio on a DVI connected device.
Video 1/Audio In	Connects to a composite video/audio input source, such as a VCR.
Component Video 1/ Audio In	Connects to a component video/audio input source, such as a component video DVD player.
Audio Out	Connects to an audio/video receiver or to external speakers.
External Speaker Switch	Connects to the speaker switch jack on switchable external speakers or an external receiver or amplifier.
Subwoofer	Connects to an external subwoofer.
RGB Audio In	Connects to the audio on an RGB connected device.
S-Video/Audio In	Connects to an S-Video device, such as a satellite dish receiver.
Component Video 2/ Audio In	Connects to a component video device, such as a HDTV set-top box.

RGB and DVI connections



Connector	Description
RGB In	Connects to an RGB video input source, such as a computer or set-top box.
RGB Out	Connects to an external RGB monitor.
DVI In	Connects to a DVI video input source, such as a computer or set-top box.
RS-232	Connects to a computer for plasma TV control using customized software (typically used by business, education, or government). For more information see the *RS-232 Serial Connection Technical Reference* at support.gateway.com.

2 Connecting Components

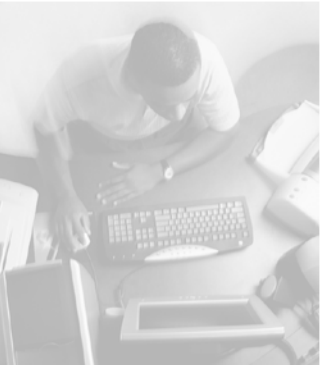
This chapter tells you how to connect your plasma TV to external components.

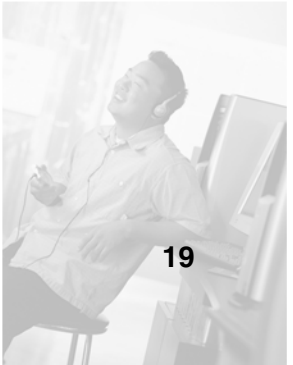
Warning

Before connecting any external components, turn off your plasma TV using the remote control or front panel button, then turn off the main power using the MAIN POWER button on the back of your plasma TV. For more information, see “Turning on the main power” on page 8.

Read this chapter to learn how to connect:

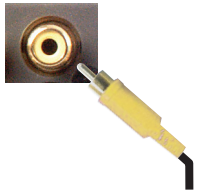
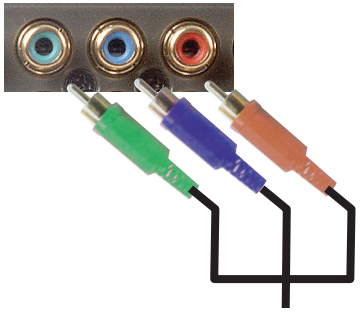
- DVD players
- HDTV decoder set-top boxes
- VCRs
- Off-air TV and cable TV
- External audio devices
- Computers





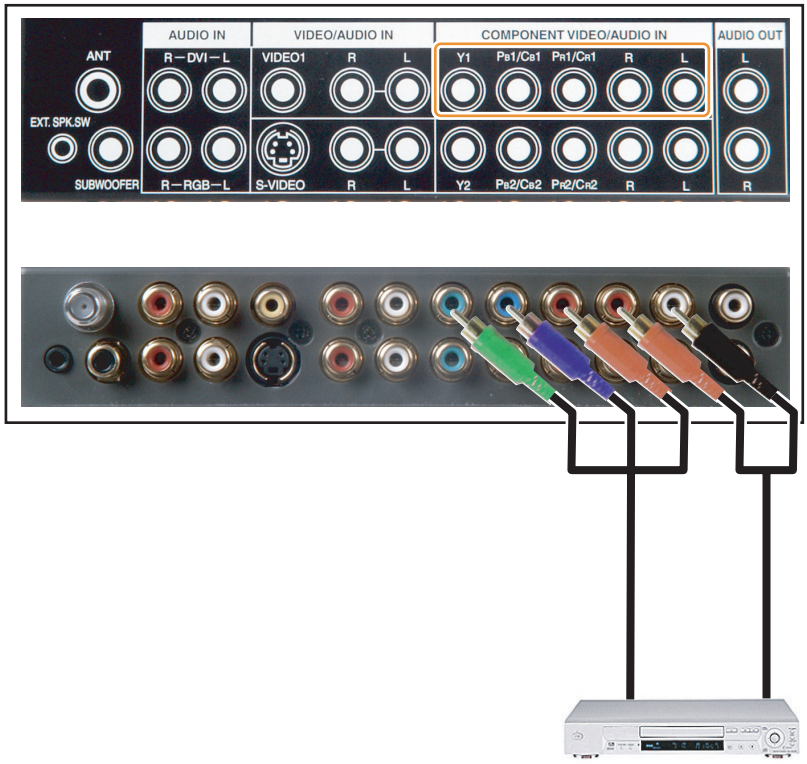
Understanding video connections

The four types of standard video connections shown in this chapter give you four levels of quality. Optimize your viewing experience by using the best connection available for your connected component. For example, if your DVD player supports a component video connection, connect the DVD player to your plasma TV using component video instead of composite video or S-Video.

Connection	Cable and Connector	Description
Basic		**Coaxial (RF).** The video and audio signals are both carried in one cable (the other three connection types only handle video, requiring separate connections for sound). Coaxial is the only way to connect an antenna to your plasma TV.
Good		**Composite**. The video signal is carried through a single “pin.” This slightly better connection method is the one that is most commonly found on components.
Better		**S-Video.** The video signal is split into two signals, black-and-white and color, giving you an even better quality picture. For example, text displayed on-screen through this connection will be noticeably sharper then composite or coaxial (RF).
Best		**Component.** The video signal is split into three signals, two color, and one black-and-white, giving you the best picture. Use component video to take advantage of the superior picture found in such signal sources as HDTV and *progressive* DVD.

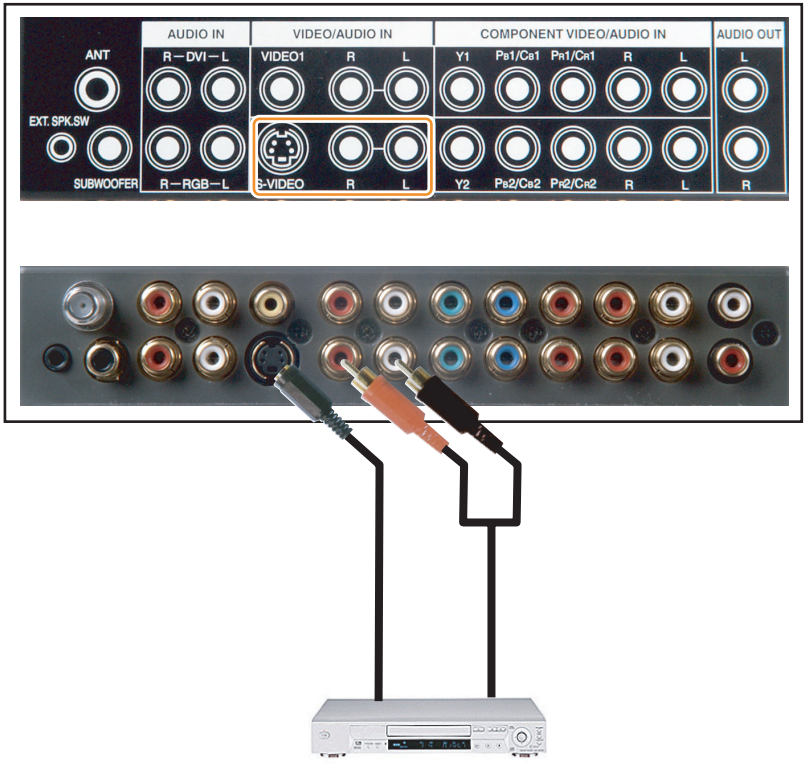
Connecting your DVD player

To connect your DVD player using component video:



1. Connect the green-colored Y jack on the back of your DVD player to the green-colored Y1 jack on the back of your plasma TV.
2. Connect the red-colored P_R or C_R jack on the back of your DVD player to the red-colored P_R1/C_R1 jack on the back of your plasma TV.
3. Connect the blue-colored P_B or C_B jack on the back of your DVD player to the blue-colored P_B1/C_B1 jack on the back of your plasma TV.
4. Connect the red (R) and white (L) audio jacks on the back of your DVD player to the R and L audio-in jacks on the back of your plasma TV.

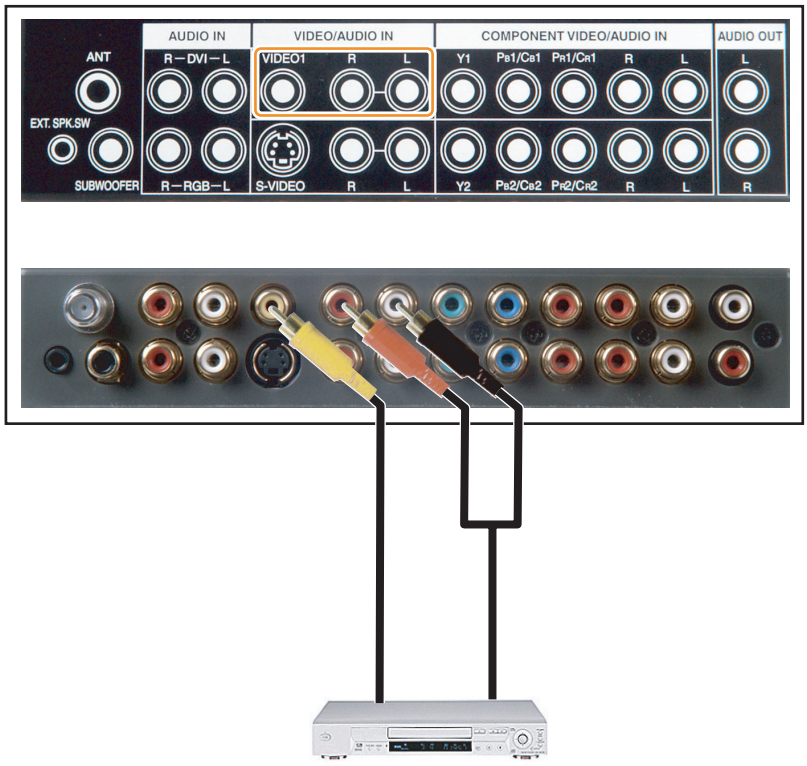
To connect your DVD player using S-Video:



1 Connect the S-Video jack on the back of your DVD player to the S-VIDEO jack on the back of your plasma TV.

2 Connect the red (R) and white (L) audio jacks on the back of your DVD player to the R and L audio-in jacks on the back of your plasma TV.

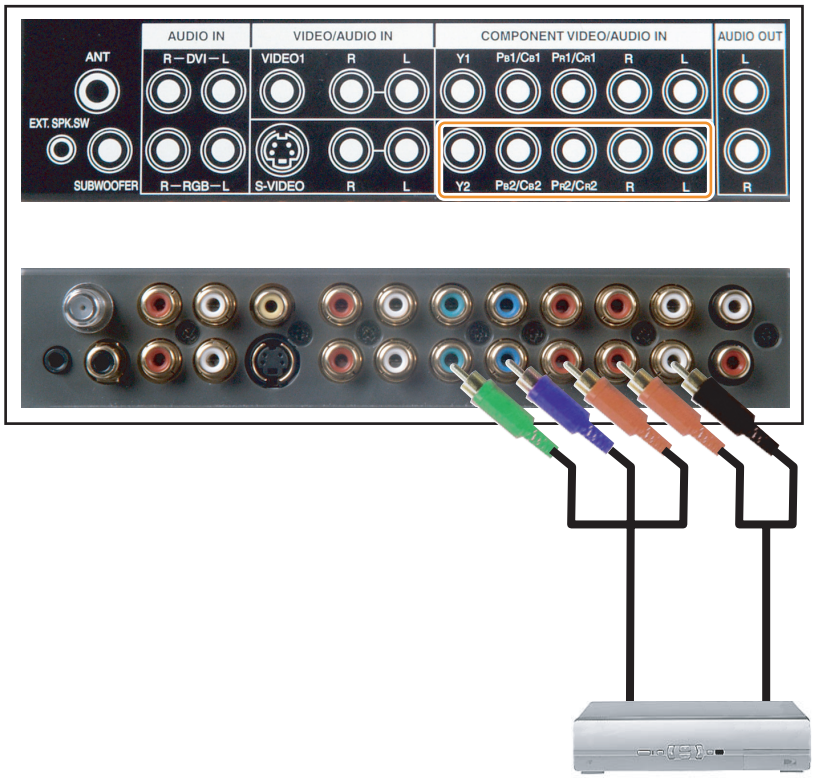
To connect your DVD player using composite video:



1. Connect the yellow video jack on the back of your DVD player to the yellow VIDEO 1 jack on the back of your plasma TV.
2. Connect the red (R) and white (L) audio jacks on the back of your DVD player to the R and L audio-in jacks on the back of your plasma TV.

Connecting your HDTV decoder set-top box

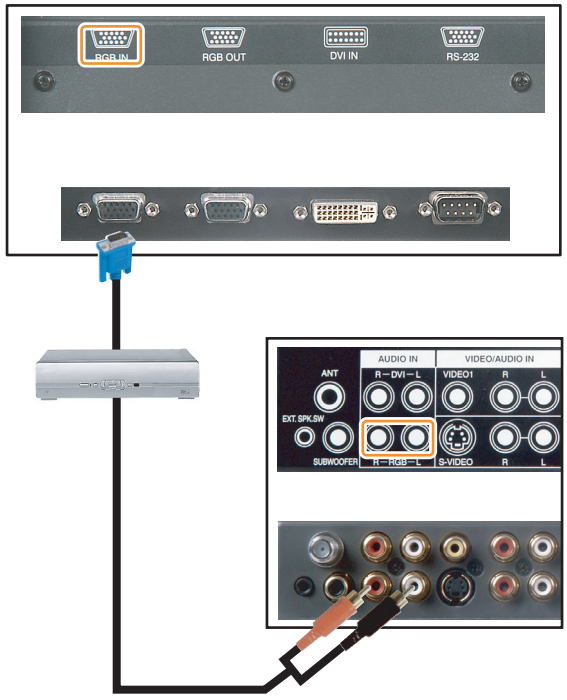
To connect your HDTV decoder set-top box using component video:



1. Connect the green Y jack on the back of your HDTV set-top box to the green Y2 jack on the back of your plasma TV.
2. Connect the red P_R or C_R jack on the back of your HDTV set-top box to the red P_R2/C_R2 jack on the back of your plasma TV.
3. Connect the blue P_B or C_B jack on the back of your HDTV set-top box to the blue P_B2/C_B2 jack on the back of your plasma TV.

4 Connect the red (R) and white (L) audio jacks on the back of your HDTV set-top box to the R and L audio-in jacks on the back of your plasma TV.

To connect your HDTV decoder set-top box using RGB video:



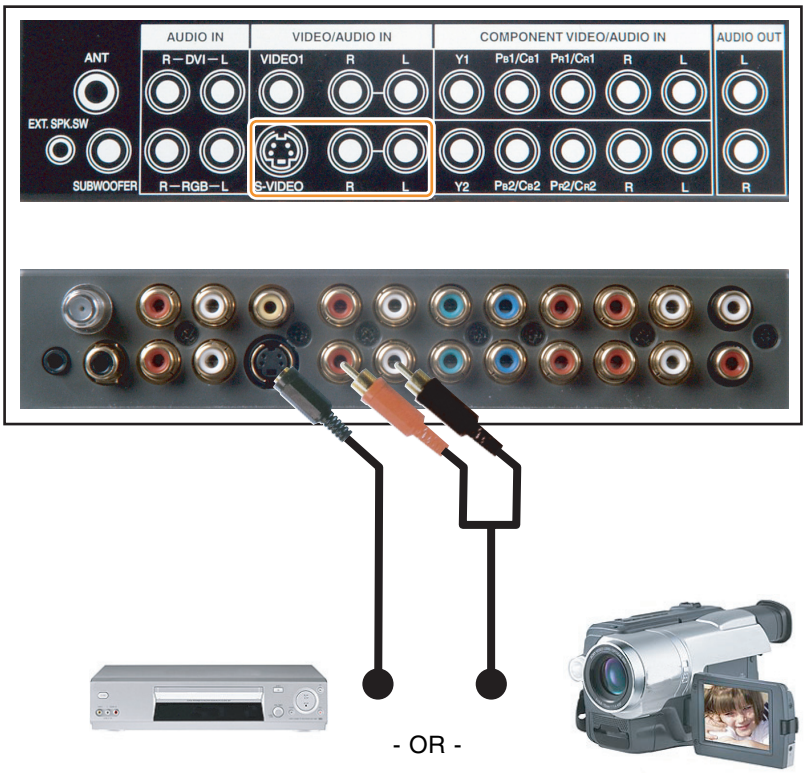
1 Connect the 15-pin D-Sub RGB jack on the back of your HDTV set-top box to the RGB-IN jack on the back of your plasma TV.

2 Connect the red (R) and white (L) audio-out jacks on the back of your HDTV set-top box to the R and L audio-in jacks on the back of your plasma TV.

After you connect your HDTV set-top box to the RGB input jack on your plasma TV, you may need to adjust various plasma TV picture settings to correctly match the output from the HDTV set-top box (see “Adjusting for RGB or DVI video” on page 59).

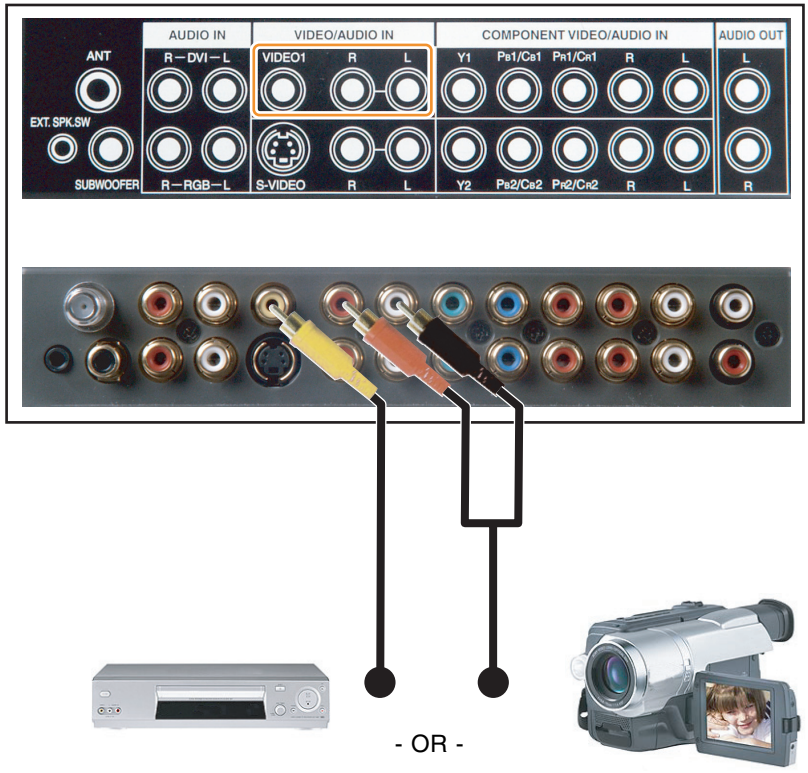
Connecting your VCR or video camera

To connect your VCR or video camera using S-Video:



1. Connect the S-Video jack on the back of your VCR or video camera to the S-VIDEO jack on the back of your plasma TV.
2. Connect the red (R) and white (L) audio jacks on the back of your VCR or video camera to the R and L audio-in jacks on the back of your plasma TV.

To connect your VCR or video camera using composite video:



1. Connect the yellow video jack on the back of your VCR or video camera to the yellow VIDEO 1 jack on the back of your plasma TV.
2. Connect the red (R) and white (L) audio jacks on the back of your VCR or video camera to the R and L audio-in jacks on the back of your plasma TV.

To connect your VCR using coaxial (RF) audio and video:

- Connect the “output to TV” (RF out or Antenna out) jack on the back of your VCR to the ANT jack on the back of your plasma TV.

If you have an off-air antenna or cable box, connect your off-air antenna or cable TV cable to the ANT connector on the back of your VCR.

Warning

If an outdoor antenna or cable system is connected to your plasma TV, make sure that the antenna or cable system is correctly grounded. For more information, see “Television antenna connectors protection (for systems fitted with TV/cable TV tuner cards)” on page 90.

Connecting off-air TV or cable TV

To connect off-air TV or cable TV using coaxial (RF) audio and video:

- Connect the coaxial (RF) connector from your antenna or cable box to the ANT connector on the back of your plasma TV.

If you have connected a VCR to the ANT connector on the back of your plasma TV, connect your off-air TV or cable TV cable to the ANT connector on the back of your VCR.

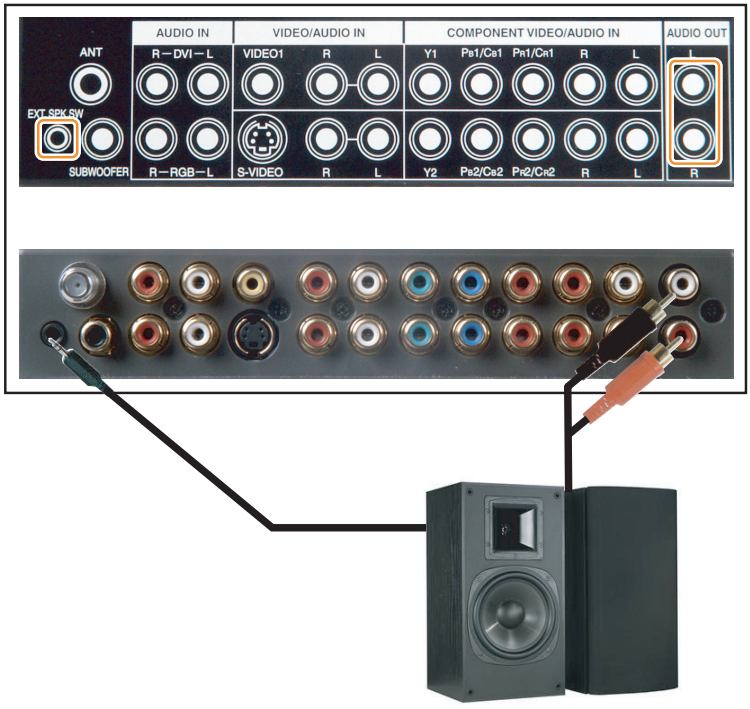
Warning

If an outdoor antenna or cable system is connected to your plasma TV, make sure that the antenna or cable system is correctly grounded. For more information, see “Television antenna connectors protection (for systems fitted with TV/cable TV tuner cards)” on page 90.

Connecting external amplified speakers

You can connect your plasma TV to a set of external, amplified speakers using the AUDIO OUT jacks located on the back of your plasma TV. If your external speakers have remote turn-on/off capability, connect the external speaker switch.

To connect your external amplified speakers:

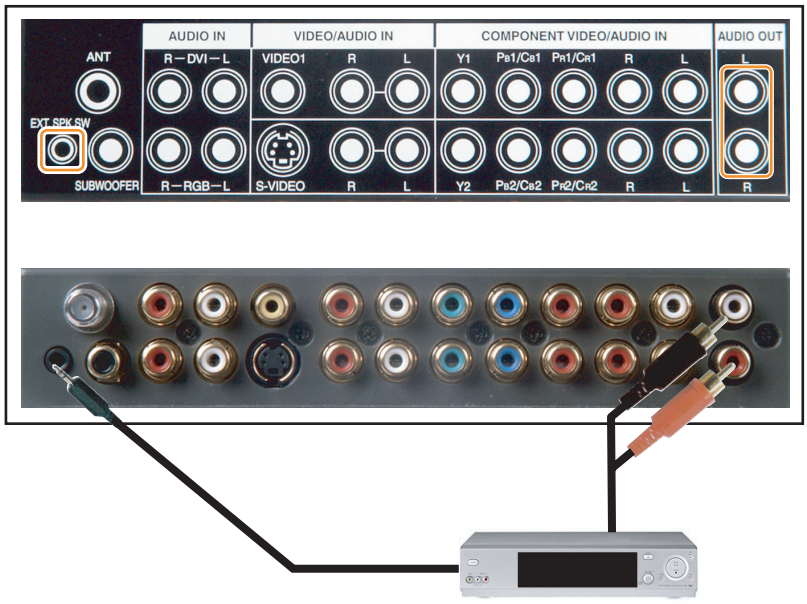


1. Connect the red (R) and white (L) audio jacks on the back of your speakers to the AUDIO OUT jacks on the back of your plasma TV.
2. If your external amplified speakers accept remote turn-on/off signals, connect the external speaker switch. Not all external amplified speakers can accept remote turn-on/off signals.

Connecting an external receiver or amplifier

You can connect an external amplifier to your plasma TV. Your plasma TV is equipped with a external speaker switch that can automatically send a remote turn-on/off signal to an external receiver or amplifier.

To connect your external receiver or amplifier:

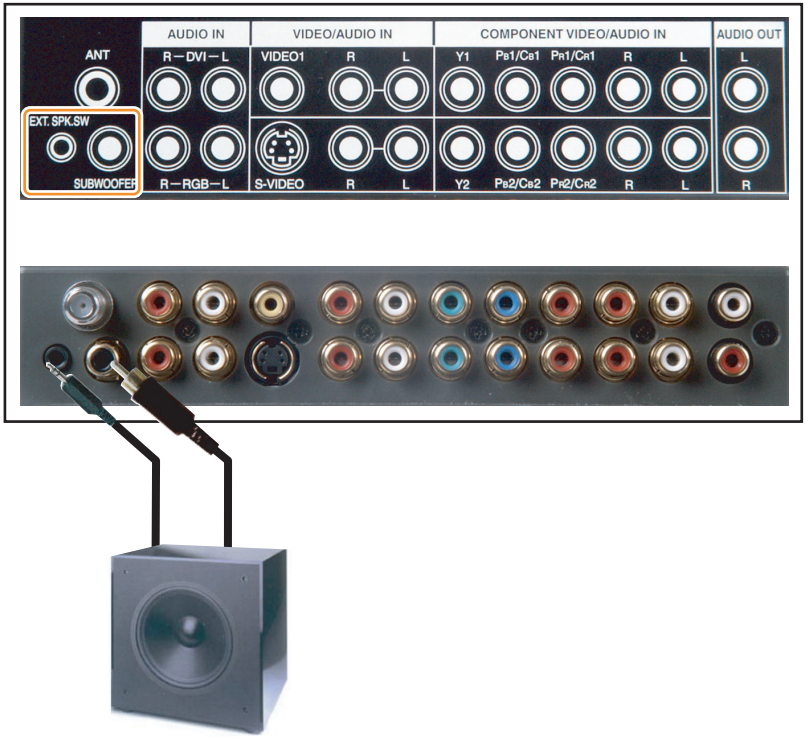


1. Connect the red (R) and white (L) audio jacks on the back of your external amplifier or receiver to the AUDIO OUT jacks on the back of your plasma TV.
2. If your external amplifier or receiver accepts remote turn-on/off signals, connect the external speaker switch. Not all external amplifiers or receivers can accept remote turn-on/off signals.

Connecting a subwoofer

Your plasma TV has built-in speakers. You can enhance the bass response of your plasma TV's sound by connecting an external, amplified subwoofer.

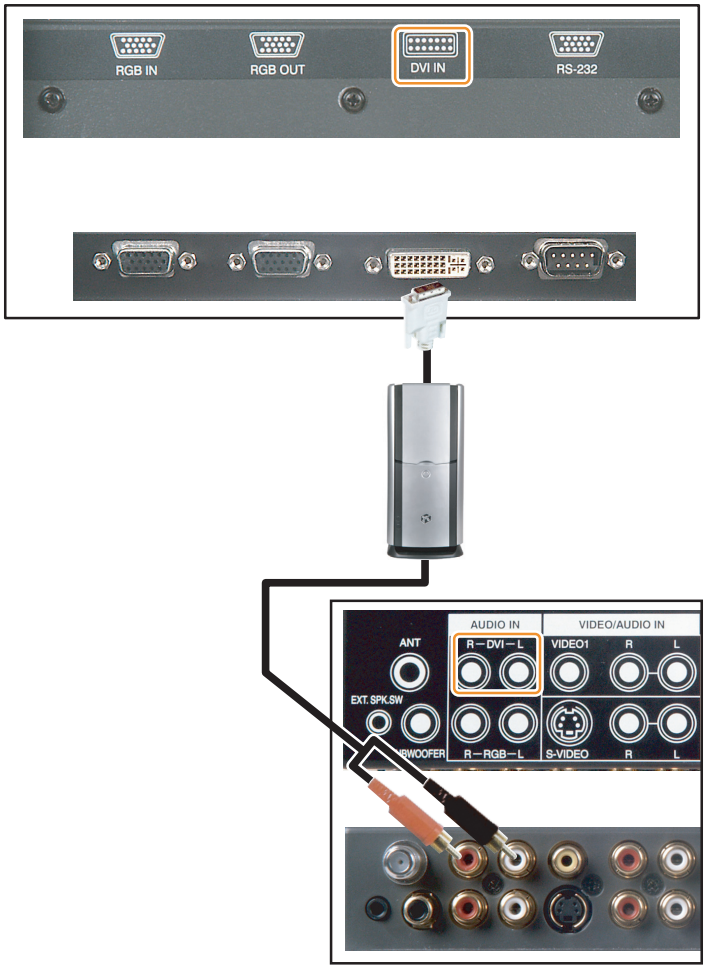
To connect your subwoofer:



1. Connect the audio jack on the back of your subwoofer to the SUBWOOFER jack on the back of your plasma TV.
2. If your subwoofer accepts remote turn-on/off signals, connect the external speaker switch. Not all subwoofers can accept remote turn-on/off signals.

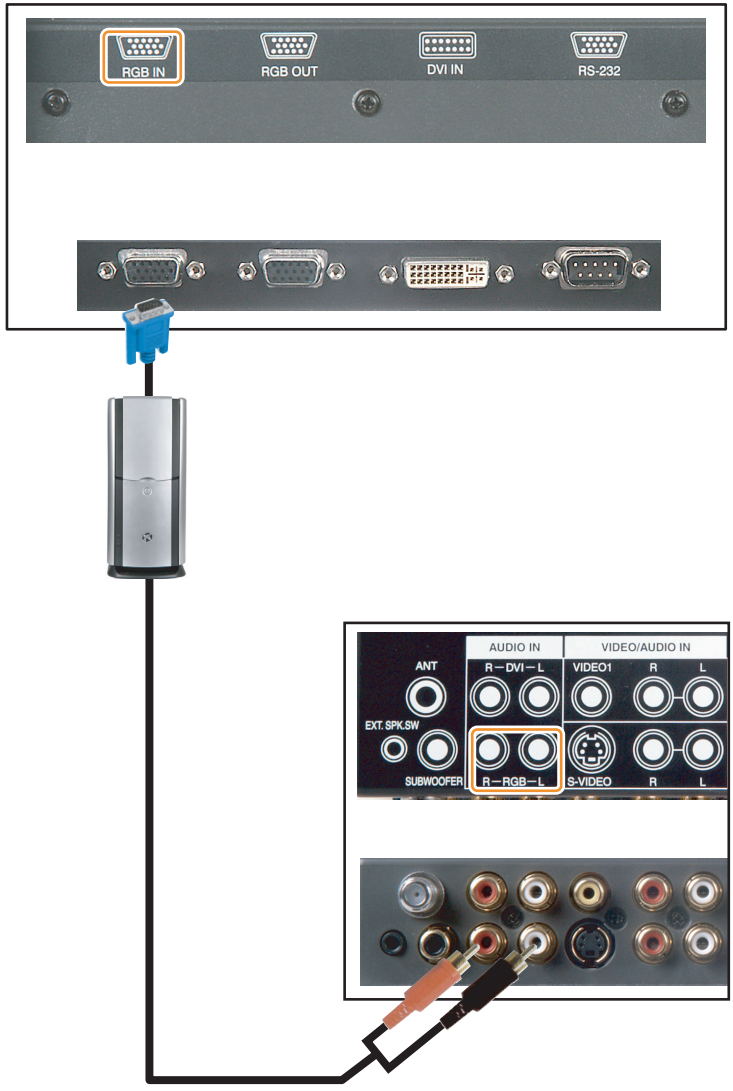
Connecting a computer

To connect your computer using DVI video:



1. Connect the DVI connector on your computer to the DVI-In connector on the back of your plasma TV.
2. Connect the Audio Out jack on your computer to the DVI Audio In jacks on the back of your plasma TV.

To connect your computer using RGB video:



1. Connect the 15-pin D-Sub RGB connector on your computer to the RGB-IN connector on the back of your plasma TV.
2. Connect the Audio Out jack on your computer to the RGB Audio In jacks on the back of your plasma TV.

Connecting an external monitor

A RGB loop-out (labeled RGB Out) allows you to connect another RGB monitor. The RGB loop-out displays the same signal as the RGB In video input source.

To connect your external monitor:

- Connect the RGB connector on your monitor to the RGB Out connector on the back of your plasma TV.

The maximum physical display resolution of the external monitor is 640 × 480 dots when the aspect ratio is set to 4:3, and 852 × 480 dots when the ratio is set to 16:9. If the computer's display resolution exceeds these maximums, the external monitor eliminates the extra dots resulting in loss of detail and picture clarity.

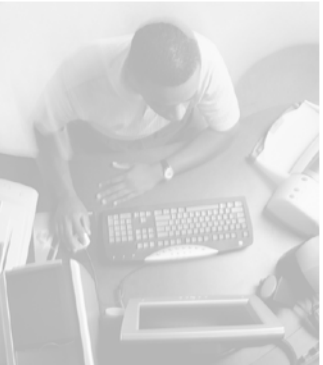
Using Your Plasma TV Controls

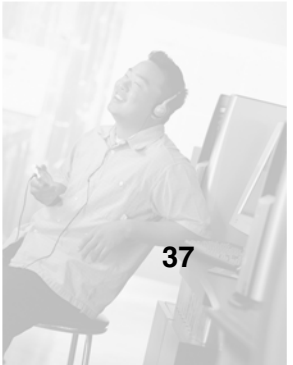
3

This chapter provides instructions on using your plasma TV controls.

Read this chapter to learn how to:

- Change viewing modes
- Use picture-in-picture (PIP) mode
- Use picture-on-picture (POP) mode
- Change plasma TV tuner settings
- Set the sleep timer
- Adjust sound controls
- Use the V-Chip (Parental Guide) controls
- Adjust the picture
- Change on-screen display (OSD) settings
- View signal frequency information

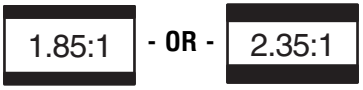
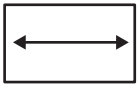
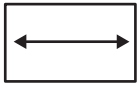
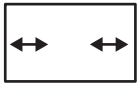
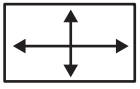
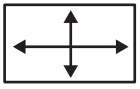




Changing widescreen and normal viewing modes

Your plasma TV has several widescreen and normal viewing modes you can use:

- 4:3 viewing mode produces a square image similar to a standard TV.
- Panorama viewing mode stretches only the sides of the image to fill the screen, leaving the center of the image unmodified.
- 16:9 viewing mode produces a widescreen image similar to the screen at a movie theater. When you are in 16:9 mode, you can select one of three zoom modes.

When watching a 4:3 signal		When watching a widescreen signal 	
	4:3 - The original 4:3 image is preserved but black bars are added to the extra space on the left and right.		**16:9 -** The widescreen image fills the screen.
	**16:9 -** The original 4:3 image is proportionally stretched to fill the entire screen.		**16:9 Zoom1 -** Shifts the image upward (good for presentations with sub-titles).
	**Panorama -** The original 4:3 image is stretched only on the left and right sides to fill the screen, leaving the center image unchanged.		**16:9 Zoom2 -** Stretches 1.85:1 content to fill the screen.
			**16:9 Zoom3 -** Stretches 2.35:1 content to fill the screen.

Warning

Burn-in: Displaying the same stationary patterns over extended periods of time, such as black bars, stock tickers, video games, or shopping channel logos and pricing displays, can leave a permanent ghost image. Avoid this by mixing your viewing patterns. Do not show the same stationary image for more than 15% of your total TV viewing in any one week.

Your warranty does **NOT** cover screen burn-in.

To change viewing modes using the on-screen display (OSD):

1. Press the MENU/ADJ arrow buttons on the remote control or the MENU + or – buttons on the front control panel to display the OSD menu.
2. Make sure that the PICTURE menu is displayed. If the PICTURE menu is not displayed, press the arrow buttons or the ADJ + or – buttons to select it.

3. Press the arrow buttons or the MENU + or – buttons to select SCREEN WIDTH, then press the arrow buttons or the ADJ + or – buttons to switch between 4:3, 16:9, or PANORAMA viewing modes.
4. In 16:9 viewing mode, press the arrow buttons or the MENU + or – buttons to select ZOOM, then press the arrow buttons or the ADJ + or – buttons to switch between zoom 1, 2, or 3.

Using picture-in-picture (PIP) mode

When the picture-in-picture (PIP) mode is active, one picture is displayed on the full screen and the other picture is displayed in a small window. The OSD in the upper-right corner of your screen lists the programs displayed on the full screen and in the window.

Warning

Avoid leaving the PIP window in the same position for an extended period of time because this may cause image burn-in. For more information on image burn-in, see page 38.

Tips & Tricks

You can use PIP mode if your video input source is set to TV, AV, or S-Video. You can also use PIP mode if your video input source is set to Component 1 or Component 2, but only if the video input source is 480i or lower, such as a DVD player. Component video input sources higher than 480i, such as a HDTV set-top box, do not work in PIP mode. If your video input source is set to RGB or DVI, PIP mode does not work.

To control PIP mode using the remote control:

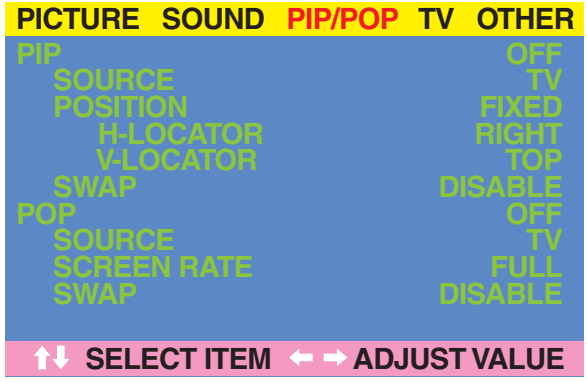
1. Press the PIP button on the remote control once to turn on PIP mode. A small window appears in one corner of the screen. The picture on the full screen is the main picture. The picture in the window is the sub-picture.
2. If you want to move the window to a different corner of the screen, press the POSITION button on the remote control one or more times.
3. If you want to the swap the main picture and the sub-picture, press the SWAP button.
4. If you want to change the video input source for the main picture, press the INPUT SELECT button or any one of the DIRECT INPUT buttons on the remote control.

5 If you want to change the video input source for the sub-picture, press the SOURCE button on the remote control. Pressing the SOURCE button repeatedly, cycles through all the available video input sources for the sub-picture.

To control PIP mode from the OSD:

1 Press the MENU/ADJ arrow buttons on the remote control or the MENU + or – buttons on the front control panel to display the OSD menu.

2 Press the arrow buttons or the ADJ + or – buttons to select the PIP/POP menu.



3 Press the arrow buttons or the MENU + or – buttons to select the option you want to change.

4 Press the arrow buttons or the ADJ + or – buttons to change settings.

Using picture-on-picture (POP) mode

When the picture-on-picture (POP) mode is active, the screen is divided into two equal parts with a picture displayed on each side. The OSD in the upper-right corner of your screen lists the video input source displayed on each side of the screen.

Tips & Tricks

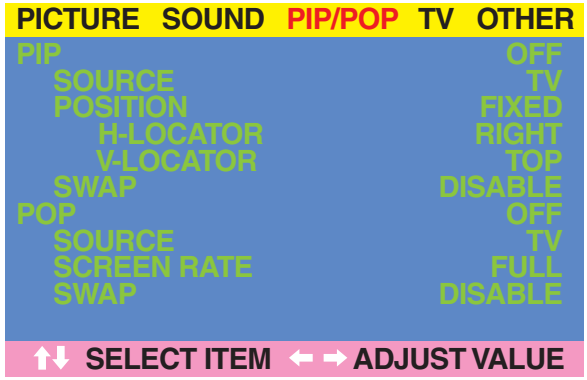
You can use POP mode if your video input source is set to TV, AV, or S-Video. You can also use POP mode if your video input source is set to Component 1 or Component 2, but only if the video input source is 480i or lower, such as a DVD player. Component video input sources higher than 480i, such as a HDTV set-top box, do not work in POP mode. If your video input source is set to RGB or DVI, POP mode does not work.

To control POP mode with the remote control:

1. Press the PIP button on the remote control twice to turn on POP mode. The screen is split into two pictures. The picture on the left side of your screen is the main picture. The picture on the right side of the screen is the sub-picture.
2. If you want to swap the pictures, press the SWAP button.
3. If you want to change the video input source for the main picture, press the INPUT SELECT button or any one of the DIRECT INPUT buttons on the remote control.
4. If you want to change the video input source for the sub-picture, press the SOURCE button repeatedly to cycle through all available video input sources for the sub-picture.

To control POP mode using the OSD:

1. Press the MENU/ADJ arrow buttons on the remote control or the MENU + or – buttons on the front control panel to display the OSD menu.
2. Press the arrow buttons or the ADJ + or – buttons to select the PIP/POP menu.

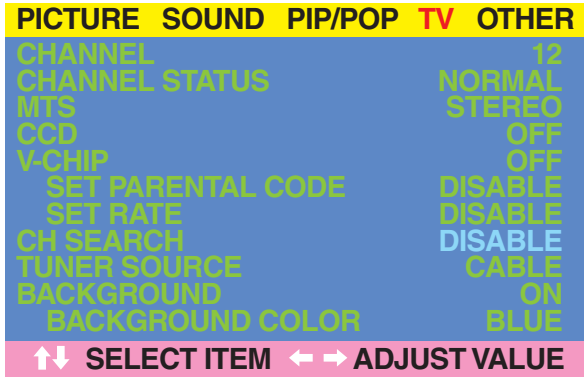


3. Press the arrow buttons or the MENU + or – buttons to select an option you want to change.
4. Press the arrow buttons or the ADJ + or – buttons to change settings.

Changing TV tuner settings

To change the TV turner settings:

1. Press the MENU/ADJ arrow buttons on the remote control or the MENU + or – buttons on the front control panel to display the OSD menu.
2. Press the arrow buttons or the ADJ + or – buttons to select the TV menu.



3. Press the arrow buttons or the MENU + or – buttons to select the option you want to change. You can change the following TV tuner options:
   - MTS. If you select STEREO, your plasma TV will play sound in stereo when stereo is available for a TV program. If you select MONO, your TV will play all sound from TV programs in mono. If you select SAP (Second Audio Program), your plasma TV will play an audio simulcast (usually another language) if a TV program has a SAP.
   - CHANNEL SEARCH. If you turn on this option, your plasma TV only displays channels that have a signal when changing channels.
   - TUNER SOURCE. If you are using cable, set this option to CABLE. If you are using an antenna, set this option to AIR.
   - BACKGROUND/BACKGROUND COLOR. If you turn this option on, your plasma TV displays a colored background instead of static when you change to a channel that does not have a signal. You can also select the background color for this option.
4. Press the arrow buttons or the ADJ + or – buttons to change the settings.

Setting up a favorite channel

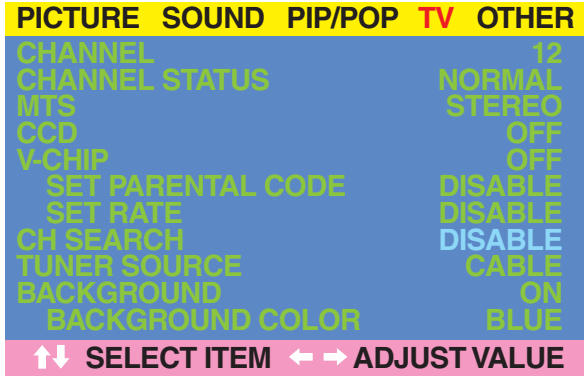
You can change the favorite channel settings using the remote control or the OSD.

To set up a favorite channel using the remote control:

1. Press the CH UP or DOWN buttons on the remote control to scroll to the channel you want to set as a favorite channel.
2. Press the FAV.SET button on the remote control. The channel is now set as part of the favorite channel selection.
3. To watch your favorite channel, press the FAV.CH button on the remote control.
4. If you want to remove a favorite channel, tune to the channel, then press the FAV.SET button again. The OSD sets the channel status to NORMAL.

To set up a favorite channel using the OSD:

1. Press the MENU/ADJ arrow buttons on the remote control or the MENU + or – buttons on the front control panel to display the OSD menu.
2. Press the arrow buttons or the ADJ + or – buttons to select the TV menu.



3 Press the arrow buttons or the MENU + or – buttons to select the CHANNEL STATUS option.

4 Press the arrow buttons or the ADJ + or – buttons to change the CHANNEL STATUS setting to FAV.

5 To watch your favorite channel, press the FAV.CH button on the remote control.

Locking channels

If you do not want a channel to be accessible, you can set the channel lock for that channel. When you tune to a locked channel, you are prompted to enter your password.

To lock a channel using the remote control:

1 Press the CH UP or DOWN button to select the channel you want to lock.

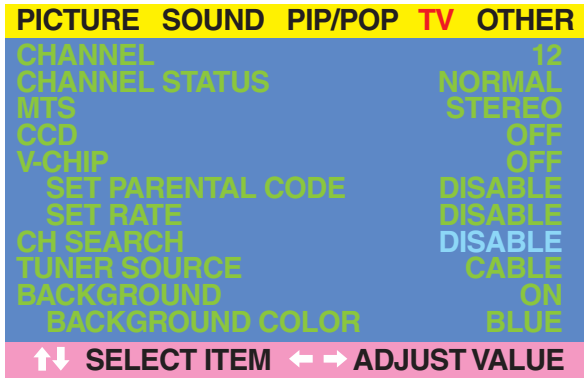
2 Press the CH LOCK button on the remote control.

3 When prompted, enter your password. If you have not set a password, enter 0000. For more information about setting a password, see “Setting a password” on page 55. The channel is locked, and you cannot view the channel unless you enter the password.

4 If you want to unlock the channel, press the CH LOCK button again, then enter the password.

To lock a channel using the OSD:

1. Press the MENU/ADJ arrow buttons on the remote control or the MENU + or – buttons on the front control panel to display the OSD menu.
2. Press the arrow buttons or the ADJ + or – buttons to select the TV menu.



3. Press the arrow buttons or the MENU + or – buttons to select the CHANNEL STATUS option.
4. Press the arrow buttons or the ADJ + or – buttons to change the CHANNEL STATUS setting to LOCK.
5. When prompted, enter your password. If you have not set a password, enter 0000. For more information about setting a password, see “Setting a password” on page 55. The channel is locked, and you cannot view the channel unless you enter the password.

Quick View

Quick View lets you switch to the last channel you were watching.

To use Quick View:

- Press the Quick View button on the remote control.

Setting the sleep timer

The sleep timer lets you set a time when you want your plasma TV to turn off automatically. One minute before the timer turns off your plasma TV, the timer appears and shows the seconds remaining before your plasma TV turns off.

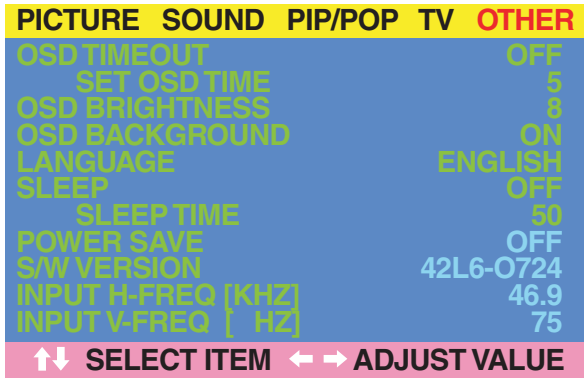
You can set the sleep timer using the remote control or the OSD.

To set the sleep timer using the remote control:

1. Press the SLEEP TIMER button on the remote control. The sleep timer appears in the upper-right corner of your screen.
2. Press the SLEEP TIMER button one or more times to cycle through all the preset times from 1 minute to 120 minutes.
3. Press the DISPLAY button to hide the sleep timer display. Your sleep timer is now running in the background.
4. If you want to turn off the sleep timer before it turns off your plasma TV, press the SLEEP TIMER button repeatedly until SLEEP: OFF is displayed.

To set the sleep timer using the OSD:

1. Press the MENU + or – buttons on the front control panel to display the OSD menu.
2. Press the ADJ + or – buttons to select the OTHER menu.



3. Press the MENU + or – buttons to select the SLEEP option.
4. Press the ADJ + or – buttons to select ON.
5. Press the MENU + or – buttons to select the SLEEP TIME option.
6. Press the ADJ + or – buttons to set a time.
7. If you want to turn off the sleep timer before it turns off your plasma TV, press the ADJ + or – buttons until SLEEP: OFF is displayed.

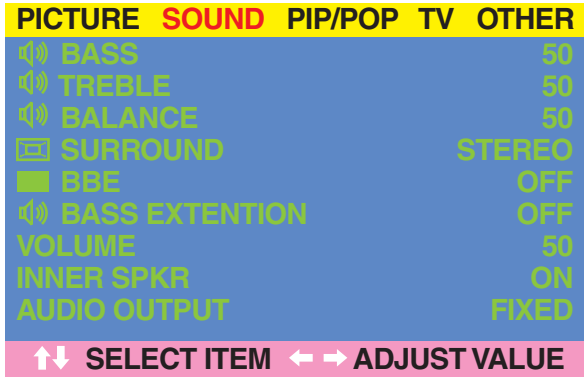
Adjusting sound settings

Selecting variable and fixed audio output

You can set the type of output your plasma TV sends to the audio output jack (located on the back of your plasma TV) to *variable* or *fixed*.

To change the audio output settings:

1. Press the MENU/ADJ arrow buttons on the remote control or the MENU + or – buttons on the front control panel to display the OSD menu.
2. Press the arrow buttons or the ADJ + or – buttons to select the SOUND menu.



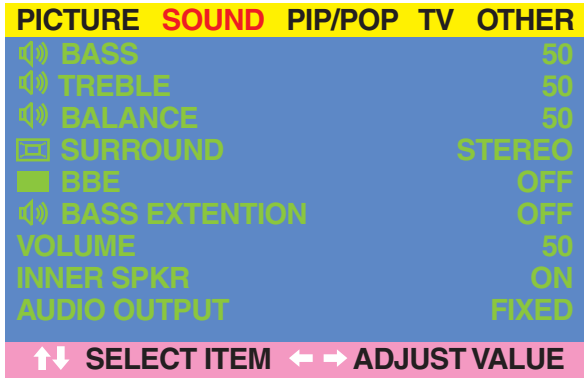
3. Press the arrow buttons or the MENU + or – buttons to select the AUDIO OUTPUT option.
4. Press the arrow buttons or the ADJ + or – buttons to select FIXED or VARIABLE. If you select FIXED, the audio bypasses your plasma TV's internal sound controls. If you select VARIABLE, you can adjust your plasma TV's sound controls, such as bass, treble, and volume.

Adjusting sound controls

When your audio output is set to VARIABLE (see “Selecting variable and fixed audio output” on page 50), you can adjust the sound your plasma TV sends to the built-in speakers or audio output jack.

To adjust the sound in the OSD:

1. Press the MENU/ADJ arrow buttons on the remote control or the MENU + or – buttons on the front control panel to display the OSD menu.
2. Press the arrow buttons or the ADJ + or – buttons to select the SOUND menu.



3. Press the arrow buttons or the MENU + or – buttons to select a sound control. You can change the following sound controls:
   - BASS. Adjusts the bass.
   - BASS EXTENSION. Extends the level of BASS output of your plasma TV. This control only works for audio that your plasma TV sends to the audio out jack on the back of your plasma TV. This option is turned off if you have your built-in speakers turned on.
   - TREBLE. Adjusts the treble.

- BALANCE. Adjusts the balance level between the channels.
- SURROUND. Use SURROUND to simulate a surround sound effect.
- BBE. Use BBE when you are using your plasma TV to play back live-performance programs.

4 Press the arrow buttons or the ADJ + or – buttons to adjust the control.

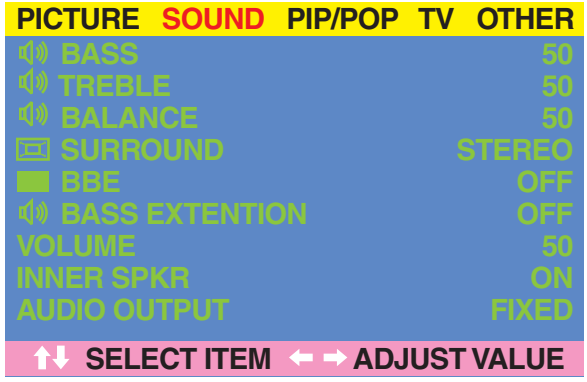
Turning the built-in speakers on or off

Your plasma TV has built-in speakers. You can turn the speakers ON or OFF using the OSD.

To turn the built-in speakers on or off:

1 Press the MENU/ADJ arrow buttons on the remote control or the MENU + or – buttons on the front control panel to display the OSD menu.

2 Press the arrow buttons or the ADJ + or – buttons to select the SOUND menu.



3 Press the arrow buttons or the MENU + or – buttons to select INNER SPKR.

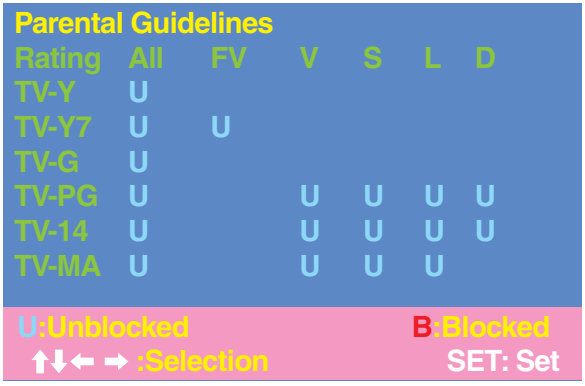
4 Press the arrow buttons or the ADJ + or – buttons to toggle the INNER SPKR option on or off.

Using the V-Chip (Parental Guide)

The V-Chip (Parental Guide) feature prevents viewers from watching programs that are not age-appropriate, such as programs containing violence or adult language.

To set the V-Chip:

1. Press the V-Chip button on remote control to access the Parental Guide setting.
2. When prompted, enter your password. If you have not set a password, enter 0000. For more information about setting a password, see “Setting a password” on page 55.
3. Press the MENU/ADJ arrow buttons on the remote control to select ON.
4. Press the SET button on the remote control to go to the next menu.



5. Press the arrow buttons to select which rating you want to block or unblock. You can select from the following ratings:

   - FV (fantasy violence)
   - V (violence)
   - S (sexual situations)
   - L (adult language)
   - D (sexual dialog)
   - TV-Y (all children)
   - TV-Y7 (older children)
   - TV-G (general audience)
   - TV-PG (guidance suggested)
   - TV-14 (strongly cautioned)
   - TV-MA (mature audience)

6. Press the SET button to select U (unblocked) or B (blocked).

7. Press the arrow buttons to select NEXT PAGE, then press the SET button to go to the next menu. If you want to return to your last setting, select LAST PAGE. On this menu you can select the following MPAA movie ratings:

   - G (general audience)
   - PG (parental guidance suggested)
   - PG-13 (recommended for children 13 years of age and older)
   - R (mature audience)
   - NC-17 (no one under 17 years of age)
   - X (no one under 17 years of age)

8. Press the arrow buttons to select which MPAA rating you want to block or unblock.

9. Press the SET button to select U (unblocked) or B (blocked).

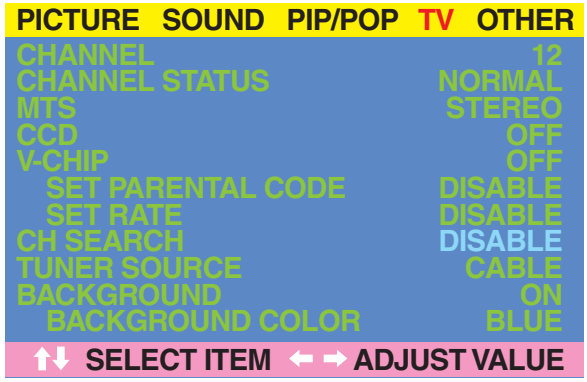
10. Press the arrow buttons to select FINISH. The message "Parental Guide ACCOMPLISHED" appears.

Setting a password

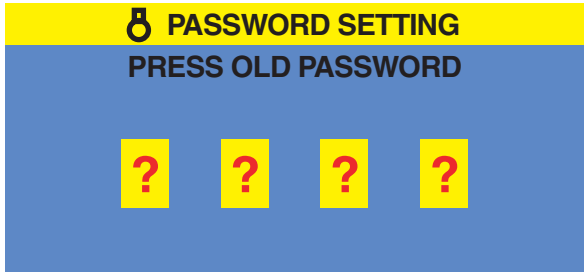
You control access to the V-Chip (Parental Guide) and channel lock features with a password. The default password is 0000. You can change the password to any four-digit number.

To change the security password:

1. Press the MENU/ADJ arrow buttons on the remote control to display the OSD menu.
2. Press the arrow buttons to select the TV menu.



3. Press the arrow buttons to select the SET PARENTAL CODE option.
4. Press the arrow buttons to select ENABLE. The PASSWORD SETTING box opens.



5 If you are setting the password for the first time, use the number buttonpad to enter the default password (0000). Each time you enter a number, the **?** (question mark) changes to a **+** (plus sign).

- OR -

If you have previously set a password, use the number buttonpad to enter your previously set password. Each time you enter a number, the **?** (question mark) changes to a **+** (plus sign).

6 Use the number buttonpad to enter a new four-digit password.

7 When prompted, enter the new password again.

Tips & Tricks

If you enter the old password incorrectly three times, your plasma TV displays the TV menu in the OSD.

If you enter the new password incorrectly three times, your plasma TV will display the NEW PASSWORD box again. You will have to set up your new password again.

Resetting your customized password

If you lose or forget your customized password, use this procedure to reset your password to the factory default setting (0000).

To reset your customized password:

1 Press and hold the left MENU/ADJ arrow button on your remote control for seven seconds.

2 Press and hold the right MENU/ADJ arrow button on your remote control for seven seconds.

3 Press the QV button on your remote control. Your password is now reset to the factory default (0000).

Adjusting the picture

Tips & Tricks

To restore the picture settings to the factory defaults, press the RECALL button on the remote control.

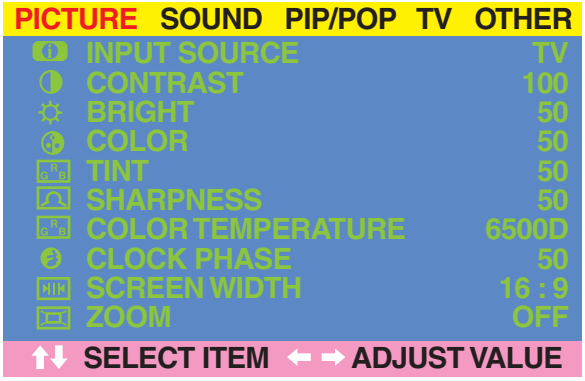
Adjusting for coaxial (RF), composite, or component video

Tips & Tricks

These controls are available when your video input source is set to TV, AV1 (Composite Video), AV2 (S-Video), Component 1, or Component 2.

To adjust the picture:

1. Press the MENU/ADJ arrow buttons on the remote control or the MENU + or – buttons on the front control panel to display the OSD menu.
2. Make sure that the PICTURE menu is displayed. If the PICTURE menu is not displayed, press the arrow buttons or the ADJ + or – buttons to select it.



3 Press the arrow buttons or the MENU + or – buttons to select the option you want to adjust. You can adjust the following options:

- CONTRAST. Adjusts the level of white areas in the picture. Use with BRIGHTNESS.
- BRIGHTNESS. Adjusts the level of dark areas in the picture. Use with CONTRAST.
- COLOR. Adjusts the saturation.
- TINT. Adjusts the color of fleshtones.
- SHARPNESS. Adjusts the amount of detail enhancement.
- COLOR TEMPERATURE. Adjusts the white balance between four settings; **6500D** sets the white balance to 6500D, **LOW** sets the white balance to 5500K, **MID** sets the white balance to 9300K, and **HIGH** sets the white balance to 13800K.
- CLOCK PHASE. Adjusts your plasma TV to match the video input source.
- SCREEN WIDTH. (See “Changing widescreen and normal viewing modes” on page 38.)
- ZOOM. (See “Changing widescreen and normal viewing modes” on page 38.)

4 Press the arrow buttons or the ADJ + or – buttons to change settings.

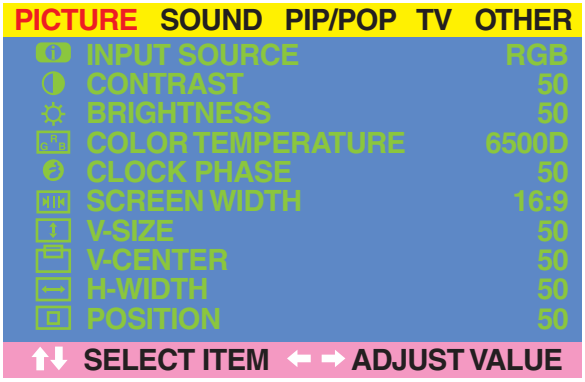
Adjusting for RGB or DVI video

Tips & Tricks

These controls are available when your video input source is set to RGB or DVI.

To adjust the picture:

1. Press the MENU/ADJ arrow buttons on the remote control or the MENU + or – buttons on the front control panel to display the OSD menu.
2. Make sure that the PICTURE menu is displayed. If the PICTURE menu is not displayed, press the arrow buttons or the ADJ + or – buttons to select it.



3 Press the arrow buttons or the MENU + or – buttons to select the option you want to adjust. You can adjust the following options:

- CONTRAST. Adjusts the level of white areas in the picture. Use with BRIGHTNESS.
- BRIGHTNESS. Adjusts the level of dark areas in the picture. Use with CONTRAST.
- COLOR TEMPERATURE. Adjusts the white balance.
- CLOCK PHASE. Adjusts your plasma TV to match the video input source.
- SCREEN WIDTH. (see “Changing widescreen and normal viewing modes” on page 38)
- V-SIZE. Adjusts the vertical screen size.
- V-CENTER. Adjusts the vertical screen position.
- H-WIDTH. Adjusts the horizontal screen size.
- H-POSITION. Adjusts the horizontal screen position

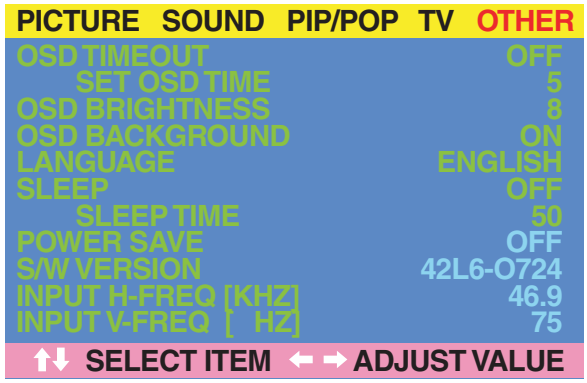
4 Press the arrow buttons or the ADJ + or – buttons to change the setting.

Changing the on-screen display (OSD) behavior

You can change various options for the OSD, such as how long the OSD is displayed and how bright the OSD appears on the screen.

To change the OSD behavior:

1. Press the MENU/ADJ arrow buttons on the remote control or the MENU + or – buttons on the front control panel to display the OSD menu.
2. Press the arrow buttons or the ADJ + or – buttons to select the OTHER menu.



3 Press the arrow buttons or the MENU + or – buttons to select the option you want to adjust. You can adjust the following options:

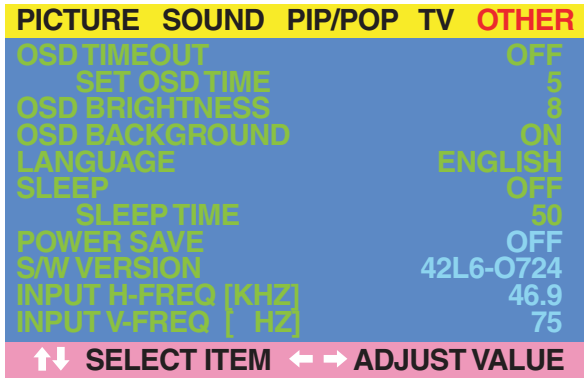
- OSD TIMEOUT. When the OSD timer is turned on and you are not using the OSD, the OSD turns off automatically after a specified number of seconds. **To avoid image burn-in, we recommend that you keep this timer turned on.**
- OSD TIME SETTING. You can specify the number the seconds the OSD is displayed before it is turned off automatically. You must have the OSD timer turned on for this option to work.
- OSD BRIGHTNESS. You can set the brightness level of the OSD.
- OSD BACKGROUND. If you set the OSD background option to OFF, the OSD background is transparent. If you set the OSD background option to ON, the OSD background is blue.

Viewing signal frequency information

You can view the signal frequency for the incoming video input source.

To view signal frequency information:

1. Press the MENU/ADJ arrow buttons on the remote control or the MENU + or – buttons on the front control panel to display the OSD menu.
2. Press the arrow buttons or the ADJ + or – buttons to select the OTHER menu. The signal frequency information is display next to INPUT H-FREQ and INPUT V-FREQ.



The following tables show the standard video input frequencies for standard video input sources.

When using TV, AV1, and AV2 inputs

Horizontal (KHz)	Vertical (Hz)	Format
15.7	60	NTSC Video
15.6	50	PAL Video

When using Component 1 and 2 inputs

Horizontal (KHz)	Vertical (Hz)	Format
15.7	60	NTSC Video
15.6	50	PAL Video
15.7	60	480i (SDTV)
31.5	60	480P (EDTV)
33.0	60	1080i (HDTV)
45.0	60	720P (HDTV)

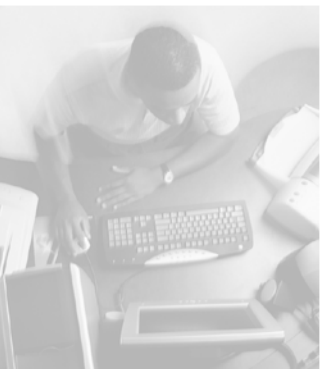
When using RGB and DVI inputs

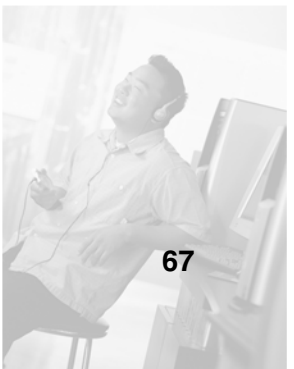
Mode	Horizontal (KHz)	Vertical (Hz)	Format	Refresh
1	31.5	59.9	640 x 480 (VGA)	60
2	37.9	72.8	640 x 480 (VGA)	72
3	37.5	75.0	640 x 480 (VGA)	75
4	43.3	85.0	640 x 480 (VGA)	85
5	35.1	56.3	800 x 600 (SVGA)	56
6	37.9	60.3	800 x 600 (SVGA)	60
7	48.1	72.2	800 x 600 (SVGA)	72
8	46.9	75.0	800 x 600 (SVGA)	75
9	53.7	85.0	800 x 600 (SVGA)	85
10	48.4	60.0	1024 x 768 (XGA)	60
11	56.5	70.0	1024 x 768 (XGA)	70
12	60.0	75.0	1024 x 768 (XGA)	75
13	68.7	85.0	1024 x 768 (XGA)	85
14	64.0	60.0	1280 x 1024 (SXGA)	60
15*	80.0	75.0	1280 x 1024 (SXGA)	75
16*	91.1	85.0	1280 x 1024 (SXGA)	85
18	31.5	70.0	720 x 400 (DOS)	70
19	31.5	50.0	640 x 480 (VGA)	50
20*	45.2	60.0	1280 x 720P (HDTV)	60
21*	33.8	60i	1920 x 1080i (HDTV)	60
22	31.5	70.0	640 x 350 (VGA)	70
23	31.7	60.4	852 x 480 (WVGA)	60
24	35.0	66.7	640 x 480 (Apple)	67
25	49.7	74.6	832 x 624 (Apple)	75
26	68.7	75.0	1152 x 870 (Apple)	75

4

Maintenance and Troubleshooting

This chapter gives general maintenance information and troubleshooting steps.





Cleaning and maintenance

Cleaning the screen

- Do not use substances such as glass cleaners, solvents, and thinners.
- The screen of your plasma TV has been specially treated. Wipe the surface gently using only a cleaning cloth or a soft, lint-free cloth.
- If the surface is particular dirty, use a soft cloth and water to clean the screen. Squirt a little water on the cloth (never directly on the screen), and wipe the screen with the cloth.

Warning

The screen of your plasma TV is made of specially coated glass and can be scratched or damaged by abrasive or ammonia-based window cleaners.

Scratches on the bezel or glass are not covered by your warranty.

- Do not scratch or hit the surface of the screen with your fingers or any hard objects.

Cleaning the exterior

- Your plasma TV is cooled by air circulated through the vents on the case, so keep the vents free of dust. With your plasma TV turned off and unplugged, brush the dust away from the vents with a damp cloth. Be careful not to drip any water into the vents. Do not attempt to clean dust from the inside of your plasma TV.
- Do not use abrasive or solvent cleaners because they can damage the finish on components.
- Do not allow any excessive water or moisture to come into contact with the surface of your plasma TV. If water or moisture gets inside your plasma TV, operating problems and electrical and shock hazards may result.
- Do not scratch or hit the cabinet with your fingers or any hard objects.
- Do not place articles made from rubber or PVC near the cabinet for any extended periods of time.

Avoiding image burn-in

- Displaying the same stationary patterns over extended periods of time, such as black bars, stock tickers, video games, or shopping channel logos and pricing displays, can leave a permanent ghost image (burn-in). Avoid this by mixing your viewing patterns. Do not show the same stationary image for more than 15% of your total TV viewing in any one week.
- Your warranty does **NOT** cover screen burn-in.

Troubleshooting

Use the following information to solve common problems.

Symptom	Possible Cause	Remedy
No picture is displayed	1 The power cord is disconnected. 2 The main power switch on the back of your plasma TV is not switched on. 3 The selected input source has no connection. 4 Your plasma TV is in standby mode while connected to a computer in RGB mode.	1 Plug in the power cord. 2 Make sure that the power switch is switched on. 3 Connect an input source to your plasma TV. 4 Press any key on your computer keyboard.
Interference displayed on your plasma TV or audible noise is heard	1 You may be experiencing interference from surrounding electrical appliances, cars, motorcycles, or fluorescent lights.	1 Move your plasma TV to another location to see if the interference is reduced.
Color is abnormal	1 The input source cable is not connected correctly.	1 Make sure that the input source cable is attached correctly to the back of your plasma TV.

Symptom	Possible Cause	Remedy
Picture is distorted with abnormal patterns	1 The input source cable is not connected correctly. 2 The video input source is beyond the capabilities of your plasma TV.	1 Make sure that the input source cable is attached correctly. 2 Check the video input source to see if it is beyond the range of your plasma TV. Compare the devices's specifications with your plasma TV's specifications.
Display image does not fill up the full size of the screen	1 If you are using RGB mode, the H-Size and V-Size are set incorrectly. 2 If you are using TV, AV1, AV2, or Component with 480i input, the 4:3 WIDE mode is switched on.	1 Use H-SIZE and V-SIZE to adjust the size of the display image. 2 Use the WIDE button to scroll through various full screen modes.
Can hear sound, but cannot see picture	1 Your input source cable is connected incorrectly.	1 Make sure that both video input and sound input source cables are connected correctly.
Can see picture, but cannot hear sound	1 Volume is turned all the way down. 2 MUTE is turned on. 3 Your input source cable is connected incorrectly.	1 Use VOLUME +/– to hear sound. 2 Press the MUTE button to turn off MUTE. 3 Make sure that both video input and sound input source cables are connected correctly.
Some picture elements do not light up	1 Some pixels of your plasma TV may not turn on.	1 Your plasma TV is manufactured using an extremely high level of precision technology. However, sometimes some pixels of your plasma TV may not display. Pixel defects within industry specifications are inherent to this type of product and do not constitute a defective product.

Symptom	Possible Cause	Remedy
After-Images can still be seen on your plasma TV after the TV is powered off. (Examples of still pictures include logos, video games, computer images, and images displayed in 4:3 normal mode.)	1 A still picture is displayed for an extended period of time.	1 Do not allow a still image to be displayed for an extended period of time because this can cause a permanent after-image to remain on your plasma TV. For more information about “burn-in”, see page 38.
Artifacting, or “noise”, appears in the picture	1 An image of lower quality is “up-converted” to display on your plasma TV.	1 When your plasma TV’s digital capabilities exceed a digital broadcast signal, the signal is up-converted (increased) to match your plasma TV’s display capabilities.
Screen brightness is diminished	1 It is normal for video display devices to experience degradation of brightness over the life of the product.	1 Normal brightness degradation is not considered a warranted defect.

Telephone support

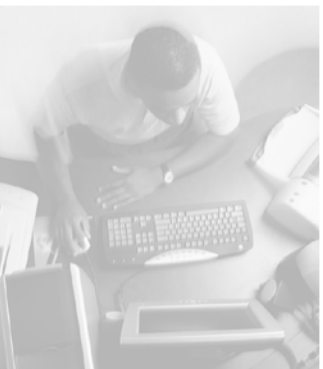
If the preceding information does not resolve your problem or if you have other questions relating to your plasma TV, call our Service Center at 888-737-MyGW (6949).

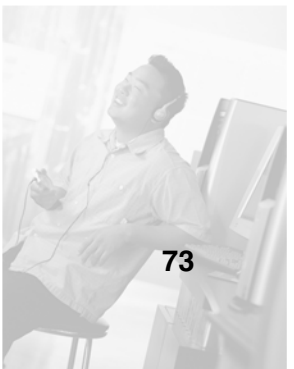
For more information about Gateway, visit www.gateway.com.

5

Specifications

This chapter contains specifications for your plasma TV.





Display Panel	
Screen size	Diagonal 42-inch
Aspect ratio	16:9 wide
Number of pixels	852 (Horizontal, RGB Trio) × 480 (Vertical) pixels
Pixel Pitch	1.08 mm × 1.08 mm
Luminance	570cd/m^2, at APL13%

Power Source	
Input voltage	100 ~ 240 Vac, 50/60 Hz
Input current	3.3 A
Inrush current	60 A p-p/20 ms Max.
Power consumption	380 ± 10% Watts (at 110 Vac/color bar pattern)
Stand-by and Power Save	5 Watts Max. (at 110 Vac)

Connector Types	
	RCA jacks for audio, video, Y/C_B/C_R, and Y/P_B/P_R
	6 pin Din S-terminal for S-Video
	9 pin D-SUB for RS232
	15 pin D-SUB for RGB
	24 pin DVI

Video/S-Video Signal	
Type	Analog
Polarity	Positive
Amplitude	Video 1Vp-p, (priority S-Video) Y=1Vp-p C=0.286Vp-p

Video/S-Video Signal	
Frequency	H: 15.734 KHz V: 60 Hz (NTSC) H: 15.625 KHz V: 50 Hz (PAL)
Input impedance	75 ohms

$Y/C_B/C_R$ or $Y/P_B/P_R$ Signal (Component 1 and 2)	
Type	Analog
Polarity	Positive
Amplitude	AV: 1Vp-p (with sync) S-Video: Y: 1Vp-p,C: 0.286Vp-p
Frequency Y/CB/CR Y/PB/PR: HDTV	 H: 15.734 KHz V: 60 Hz (NTSC) H: 15.625 KHz V: 50 Hz (PAL) H: 31 KHz V: 60 Hz (480P) H: 45 KHz V: 60 Hz (720P) H: 33 KHz V: 60 Hz (1080I)

RGB Signal	
Type	TTL
Polarity	Positive or Negative
Amplitude	RGB: 0.7 Vp-p
Frequency	H: support to 31 K~91 KHz V: support to 50~85 Hz

DVI Signal	
Type	Digital
Polarity	Positive or Negative
Frequency	H: support to 31 K~63 KHz V: support to 50~85 Hz

Audio Signal
Analog 500 mV rms /more than 22 Kohm

Pin Assignments for D-SUB Connector (In/Loop Out)

Pin	Signal Assignment	Pin	Signal Assignment	Pin	Signal Assignment
1	RED	6	RED GND	11	GND
2	GREEN	7	GREEN GND	12	SDA
3	BLUE	8	BLUE GND	13	H-SYNC
4	GND	9	NC	14	V-SYNC
5	GND	10	GND	15	SCL

Pin Assignments for 24 Pin DVI Connector (Digital Only)

Pin	Signal Assignment	Pin	Signal Assignment	Pin	Signal Assignment
1	TMDS Data 2-	**9**	TMDS Data 1-	**17**	TMDS Data 0-
2	TMDS Data 2+	**10**	TMDS Data 1+	**18**	TMDS Data 0+
3	TMDS Data 2/4 Shield	**11**	TMDS Data 1/3 Shield	**19**	TMDS Data 0/5 Shield
4	TMDS Data 4-	**12**	TMDS Data 3-	**20**	TMDS Data 5-
5	TMDS Data 4+	**13**	TMDS Data 3+	**21**	TMDS Data 5+
6	DDC Clock	**14**	+5V Power	**22**	TMDS Clock Shield
7	DDC Data	**15**	Ground (For +5V)	**23**	TMDS Clock +
8	No Connect	**16**	Hot Plug Detect	**24**	TMDS Clock -

RGB/DVI For VESA Standard

Mode No.	Resolution	Refresh Rate (Hz)	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	V-Sync Polarity (TTL)	H-Sync Polarity (TTL)	Dot Rate (MHz)
1	640 (VGA) x 480	60	31.5	59.94	-	-	25.175
2	640 (VGA) x 480	72	37.9	72.81	-	-	31.500
3	640 (VGA) x 480	75	37.5	75	-	-	31.500
4	640 (VGA) x 480	85	43.3	85.01	-	-	36.000
5	800 (SVGA) x 600	56	35.1	56.25	+	+	36.000
6	800 (SVGA) x 600	60	37.9	60.317	+	+	40.000
7	800 (SVGA) x 600	72	48.1	72.19	+	+	50.000
8	800 (SVGA) x 600	75	46.9	75	+	+	49.500
9	800 (SVGA) x 600	85	53.7	85.06	+	+	56.250
10	1024 (XGA) x 768	60	48.4	60.01	-	-	65.000
11	1024 (XGA) x 768	70	56.5	70.07	-	-	75.000
12	1024 (XGA) x 768	75	60.0	75.03	+	+	78.750
13	1024 (XGA) x 768	85	68.7	84.99	+	+	94.500
14	1280 (SXGA) x 1024	60	63.98	60.02	+	+	108.00
15*	1280 (SXGA) x 1024	75	79.98	75.03	+	+	135.00
16*	1280 (SXGA) x 1024	85	91.15	85.02	+	+	157.50
18	720 (DOS) x 400	70	31.46	70.08	+	-	28.320
19	640 (VGA) x 480	50	31.5	50	-	-	25.175
20*	1280 (HDTV) x 720P	60	45.15	60	-	-	74.250
21*	1920 (HDTV) x 1080I	60(I)	33.78	60	-	-	74.250
22	640 (VGA) x 350	70	31.50	70	-	-	25.175
23	852 (WGA) x 480	60	31.72	60.41	-	-	30.00

* These modes are not supported in DVI mode.

RGB/DVI For Apple Standard							
Mode No.	**Resolution**	**Refresh Rate (Hz)**	**Horizontal Frequency (KHz)**	**Vertical Frequency (Hz)**	**V-Sync Polarity (TTL)**	**H-Sync Polarity (TTL)**	**Dot Rate (MHz)**
24	640 x 480	67	35.00	66.67	-	-	30.240
25	832 x 624	75	49.73	74.55	-	-	57.283
26	1152 x 870	75	68.68	75.06	-	-	100.000

Y/PB/PR For Component 1 and 2		
Mode	**Resolution**	**Refresh Rate**
1	640 x 480P	60
2	1920 x 1080I	60
3	1280 x 720P	60

Maximum Resolution
Up to 1280 x 1024

Dimensions	Without/Stand	With/Stand
Width	40.94 in. (1040 mm)	40.94 in. (1040 mm)
Height	25.51 in. (648 mm)	27.16 in. (690 mm)
Depth	3.74 in. (95 mm)	11.32 in. (287.5 mm)

Package Dimensions	
Width	48.42 in. (1230 mm)
Height	37.79 in. (960 mm)
Depth	18.50 in. (470 mm)

Weight	
Net weight	68.8 lbs/31.2 Kgs (without stand) 77.2 lbs/ 35 Kgs (with stand)
Gross weight	101.4 lbs/46 Kgs

Operating	
Temperature	0~40°C (32~104°F)
Relative humidity	20~80%
Pressure	800~1114 hpa

Non-Operating	
Temperature	-20~60°C
Relative humidity	20~90%
Pressure	700~1114 hpa
Vibration	X/Y/Z, 0.5G/10~55 Hz (sweep), 10 minutes

Acoustics	
(IHF A-weighted 1 meter)	40 dB Max.

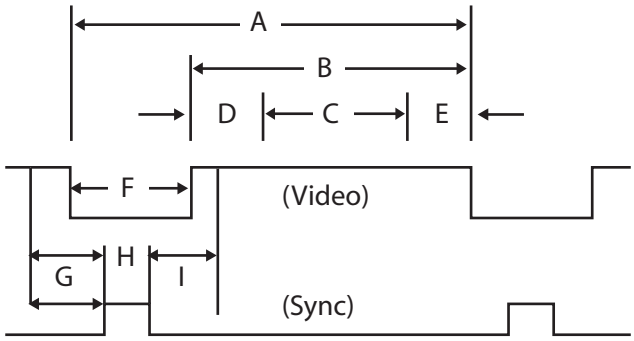
Sound	
Residual hum (at volume max)	500 µW Max.
Practical max. Audio output (at 10% THD max.)	1.0 vp-p 1 KHz input 5 W + 5 W Max. /12 ohm
Sound distortion (at 250 mw 1 KHz)	1% Max.
Audio output (input at $1.4V_{P-P}$)	>=1.0 V_{P-P}

Reliability Requirement
The MTBF is 20000 hours under operation at 25±5°C (Half luminosity, motion picture)

Emissions Requirement
Your plasma TV meets the EMI limits in all screen modes as qualified by FCC class B part 15.

Power Management				
Mode	**H-sync**	**V-sync**	**Video**	**Power dissipation**
Normal	Pulse	Pulse	Active	Normal power
Stand-by	No pulse	No pulse	No video	Less than 5 watts
Power saving	Pulse No pulse	No pulse Pulse	blanked blanked	Less than 5 watts Less than 5 watts

Preset Timing Chart



Item	Description:
A	Total time
B	Active display area including borders
C	Active display area excluding borders
D	Left/Top border
E	Right/bottom border
F	Blanking time
G	Front porch
H	Sync-width
I	Back porch

Mode	1	2	3	4	5	6	7	8	9	
H Resolution	640	640	640	640	800	800	800	800	800	
V Resolution	480	480	480	480	600	600	600	600	600	
Refresh Rate	60	72	75	85	56	60	72	75	85	Hz
Pixel	25.175	31.5	31.5	36	36	40	50	49.5	56.25	MHz
Horizontal visible	640	640	640	640	800	800	800	800	800	Dots
Horizontal total	800	832	840	832	1024	1056	1040	1056	1048	Dots
Horizontal front porch	24	32	16	56	24	40	56	16	32	Dots
Horizontal sync	96	40	64	56	72	128	120	80	64	Dots
Horizontal back porch	48	128	120	80	128	88	64	160	152	Dots
Horiz blanking time	160	192	200	192	224	256	240	256	248	Dots
Vertical visible	480	480	480	480	600	600	600	600	600	Lines
Vertical total	525	520	500	509	625	628	666	625	631	Lines
Vertical front porch	18	17	1	1	1	1	37	1	1	Lines
Vertical sync	2	3	3	3	2	4	6	3	3	Lines
Vertical back porch	33	28	16	25	22	23	23	21	27	Lines
Vertical blanking time	45	40	20	29	25	28	66	25	31	Lines
Horizontal frequency	31.469	37.9	37.5	43.3	35.1	37.9	48.1	46.9	53.7	KHz
Vertical frequency	59.94	72.81	75	85.01	56.25	60.317	72.19	75	85.06	Hz
Vertical sync polarity	-	-	-	-	+	+	+	+	+	TTL
Horiz sync polarity	-	-	-	-	+	+	+	+	+	TTL
Dot rate	25.175	31.5	31.5	36	36	40	50	49.5	56.25	MHz

Mode	10	11	12	13	14	15	16	18	19	
H Resolution	1024	1024	1024	1024	1280	1280	1280	720	640	
V Resolution	768	768	768	768	1024	1024	1024	400	480	
Refresh Rate	60	70	75	85	60	75	85	70	50	Hz
Pixel	65	75	78.75	94.5	108	135	157.5	28.320	25.175	MHz
Horizontal visible	1024	1024	1024	1024	1280	1280	1280	720	640	Dots
Horizontal total	1344	1328	1312	1376	1688	1688	1728	900	800	Dots
Horizontal front porch	24	24	16	48	48	16	64	18	16	Dots
Horizontal sync	136	136	96	96	112	144	160	108	96	Dots
Horizontal back porch	160	144	176	208	248	248	224	54	48	Dots
Horiz blanking time	320	304	288	352	408	408	448	180	160	Dots
Vertical visible	768	768	768	768	1024	1024	1024	400	480	Lines
Vertical total	806	806	800	808	1066	1066	1072	449	629	Lines
Vertical front porch	3	3	1	1	1	1	1	12	62	Lines
Vertical sync	6	6	3	3	3	3	3	2	2	Lines
Vertical back porch	29	29	28	36	38	38	44	35	85	Lines
Vertical blanking time	38	38	32	40	42	42	48	49	149	Lines
Horizontal frequency	48.4	56.5	60	68.7	63.98	79.98	91.15	31.46	31.5	KHz
Vertical frequency	60.01	70.07	75.03	84.99	60.02	75.03	85.02	70.08	50	Hz
Vertical sync polarity	-	-	+	+	+	+	+	+	-	TTL
Horiz sync polarity	-	-	+	+	+	+	+	-	-	TTL
Dot rate	65	75	78.75	94.5	108	135	157.5	28.32	25.175	MHz

Mode	20	21	22	23	24	25	26	
H Resolution	1280	1920	640	852	640	832	1152	
V Resolution	720P	1080i	350	480	480	624	870	
Refresh Rate	60	60i	70	60	67	75	75	Hz
Pixel	74.250	74.25	25.175	30	30.240	57.283	100.000	MHz
Horizontal visible	1266	1901	640	852	640	832	1152	Dots
Horizontal total	1650	2201	800	955	864	1152	1456	Dots
Horizontal front porch	42	68	16	19	64	32	32	Dots
Horizontal sync	63	63	96	48	64	64	128	Dots
Horizontal back porch	279	169	48	36	96	224	144	Dots
Horiz blanking time	384	300	160	103	224	320	304	Dots
Vertical visible	687	518	350	480	480	624	870	Lines
Vertical total	750	562.5	449	525	525	667	915	Lines
Vertical front porch	1	0.5	37	10	3	1	3	Lines
Vertical sync	6	6	2	2	3	3	3	Lines
Vertical back porch	56	38	60	33	39	39	39	Lines
Vertical blanking time	63	44.5	99	45	45	43	45	Lines
Horizontal frequency	45.15	33.78	31.50	31.72	35.00	49.73	68.68	KHz
Vertical frequency	60	60	70	60.41	66.667	74.55	75.06	Hz
Vertical sync polarity	-	-	-	-	-	-	-	TTL
Horiz sync polarity	-	-	-	-	-	-	-	TTL
Dot rate	74.25	74.25	25.175	30	30.24	57.283	100.000	MHz

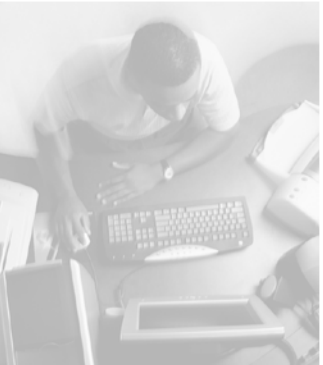
A Safety, Regulatory, and Legal Information

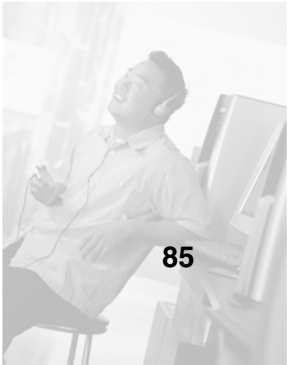
Important safety information

Your Gateway system is designed and tested to meet the latest standards for safety of information technology equipment. However, to ensure safe use of this product, it is important that the safety instructions marked on the product and in the documentation are followed.

Warning

Always follow these instructions to help guard against personal injury and damage to your Gateway system.





Setting up your system

- Read and follow all instructions marked on the product and in the documentation before you operate your system. Retain all safety and operating instructions for future use.
- Do not use this product near water or a heat source such as a radiator.
- Set up the system on a stable work surface.
- The product should only be operated from the type of power source indicated on the rating label.
- If your product has a voltage selector switch, make sure that the switch is in the proper position for your area. The voltage selector switch is set at the factory to the correct voltage.
- Openings in the plasma TV case are provided for ventilation. Do not block or cover these openings. Make sure that you provide adequate ventilation space, at least 6 inches (15.2 cm) around the system for when you set up your work area or 3 inches (7.6 cm) behind the system when using the Gateway plasma TV wall mount. Never insert objects of any kind into the plasma TV ventilation openings.
- Some products are equipped with a three-wire power cord to make sure that the product is properly grounded when in use. The plug on this cord will only fit into a grounding-type outlet. This is a safety feature. If you are unable to insert the plug into an outlet, contact an electrician to install the appropriate outlet.
- If you use an extension cord with this system, make sure that the total ampere rating on the products plugged into the extension cord does not exceed the extension cord ampere rating.
- If your system is fitted with a TV Tuner, cable, or satellite receiver card, make sure that the antenna or cable system is electrically grounded to provide some protection against voltage surges and buildup of static charges.

Care during use

- Do not walk on the power cord or allow anything to rest on it.
- Do not spill anything on the system. The best way to avoid spills is to avoid eating and drinking near your system.
- Do not expose the plasma TV to rain or use near water. If any liquid is spilled on or in the plasma TV, the warranty is void. Turn the plasma TV off and unplug the unit from the wall immediately, and call a qualified service technician.
- When the plasma TV is turned off, a small amount of electrical current still flows through the plasma TV. To avoid electrical shock, always unplug all power cables and modem cables from the wall outlets before cleaning the system.
- Unplug the system from the wall outlet and refer servicing to qualified personnel if:
  - The power cord or plug is damaged.
  - Liquid has been spilled into the system.
  - The system does not operate properly when the operating instructions are followed.
  - The system was dropped or the cabinet is damaged.
  - The system performance changes.

Warning

To prevent electric shock, never remove the cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

Replacement parts and accessories

Use only replacement parts and accessories recommended by Gateway.

Important

Do not use Gateway products in areas classified as hazardous locations. Such areas include patient care areas of medical and dental facilities, oxygen-laden environments, or industrial facilities.

Regulatory compliance statements

United States of America

Federal Communications Commission (FCC)
Unintentional emitter per FCC Part 15

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio and television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment to an outlet on a different circuit from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

Compliance Accessories: The accessories associated with this equipment are: shielded video cable. These accessories are required to be used in order to ensure compliance with FCC rules.

FCC declaration of conformity

Responsible party:

Gateway Companies, Inc.
610 Gateway Drive, North Sioux City, SD 57049
(605) 232-2000 Fax: (605) 232-2023

This device complies with Part 15 of the FCC Rules. Operation of this device is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution

Changes or modifications not expressly approved by Gateway could void the FCC compliance and negate your authority to operate the product.

Canada

Industry Canada (IC)
Unintentional emitter per ICES-003

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of Industry Canada.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Classe B prescrites dans le règlement sur le brouillage radioélectrique édicté par Industrie Canada.

Television antenna connectors protection (for systems fitted with TV/cable TV tuner cards)

External television antenna grounding

If an outside antenna or cable system is to be connected to your Gateway PC, make sure that the antenna or cable system is electrically grounded to provide some protection against voltage surges and static charges.

Article 810 of the National Electrical Code, ANSI/NFPSA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Lightning protection

Gateway recommends the use of a surge protector to reduce the likelihood of damage from power surges.

For added protection of any Gateway product during an electrical storm or when the product is left unattended for long periods, unplug the product from the wall outlet or surge protector and disconnect the antenna or cable system.

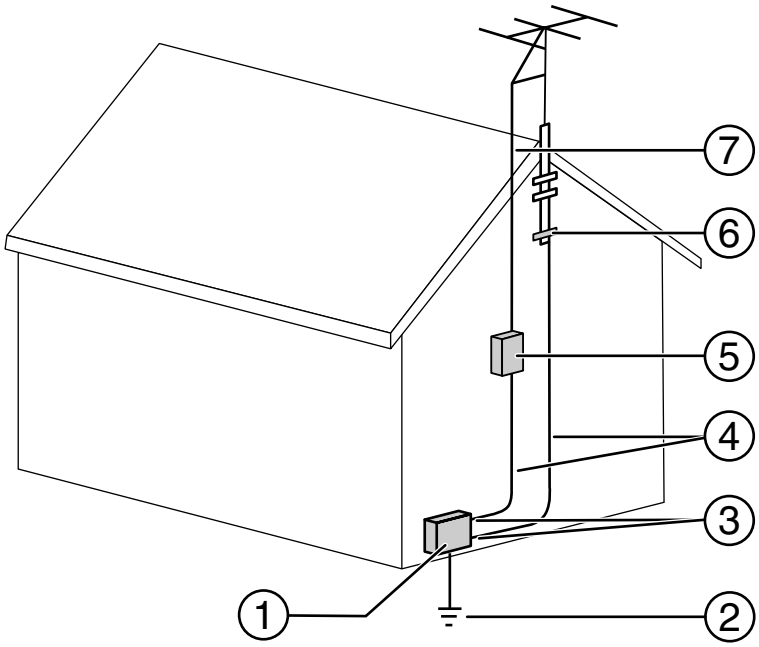
Damage due to lightning strikes or power surges is not covered under warranty.

Power lines

Do not locate the antenna near overhead light or power circuits, or where it could fall into such power lines or circuits.

Warning

When installing or realigning an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits. Contact with them could be fatal.



Antenna and satellite grounding

Reference	Grounding component
1	Electric service equipment
2	Power service grounding electrode system (NEC Art 250, Part H)
3	Ground clamps
4	Grounding conductors (NEC Section 810-21)
5	Antenna discharge unit (NEC Section 810-20)
6	Ground clamp
7	Antenna lead-in wire

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Poway, CA 92064 USA

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